

City of San Diego

CONTRACTOR'S NAME: Palm Engineering and Construction Co., Inc.

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Phone No. (619) 533-4618

J. Sherzai / R. Puertollano / Y. Kawai

BIDDING DOCUMENTS



FOR

AC WATER AND SEWER GROUP 1036

BID NO.: K-21-2026-DBB-3

SAP NO. (WBS/IO/CC): B-18121, B-18123

CLIENT DEPARTMENT: 2000

COUNCIL DISTRICT: 2, 9

PROJECT TYPE: KB, JA

THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM
- PREVAILING WAGE RATES: STATE FEDERAL
- APPRENTICESHIP

BID DUE DATE:

2:00 PM

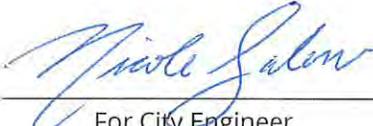
MAY 6, 2021

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

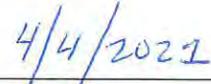
<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:



For City Engineer



Date

Seal:



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REQUIRED DOCUMENTS SCHEDULE DURING BIDDING AND AWARDING

The Bidder's attention is directed to the City's Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.

The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
1.	Bid Bond (PDF via PlanetBids)	At Time of Bid	ALL BIDDERS
2.	Contractors Certification of Pending Actions	At Time of Bid	ALL BIDDERS
3.	List of Subcontractors for Alternate Items	At Time of Bid	ALL BIDDERS
4.	Mandatory Disclosure of Business Interests	At Time of Bid	ALL BIDDERS
5.	Debarment and Suspension Certification for Prime Contractors	At Time of Bid	ALL BIDDERS
6.	Debarment and Suspension Certification for Subcontractors, Suppliers & Mfgs	At Time of Bid	ALL BIDDERS
7.	Bid Bond (Original)	By 5PM 3 working days after bid opening	ALL BIDDERS
8.	SLBE Good Faith Effort Documentation	By 5 PM 3 working days after bid opening	ALL BIDDERS
9.	Form AA60 – List of Work Made Available	By 5 PM 3 working days after bid opening with Good Faith Effort (GFE) documentation	ALL BIDDERS
10.	Contractor's Experience and Past Project Documentation. See SSP and 2018 WB Section 500-2.1, "Initial Submittals" subitem 1a)	At Time of Bid	ALL BIDDERS
11.	Manufacturer Authorized Installer Certification. See SSP and 2018 WB Section 500-2.1, "Initial Submittals" subitem 1b)	At Time of Bid	ALL BIDDERS

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
12.	Phased Funding Schedule Agreement (when required)	Within 10 working days of receipt by the bidder of the Notice of Intent to Award	AWARDED BIDDER
13.	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> • Joint Venture Agreement • Joint Venture License 	Within 10 working days of receipt by bidder of contract forms	AWARDED BIDDER
14.	Payment & Performance Bond: Certificates of Insurance & Endorsements	Within 10 working days of receipt by bidder of contract forms and NOI	AWARDED BIDDER
15.	Signed Contract Agreement Page	Within 3 working days of receipt by bidder of Contract Agreement	AWARDED BIDDER
16.	Listing of "Other Than First Tier" Subcontractors	Within 10 working days of receipt by bidder of contract forms	AWARDED BIDDER

NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **AC Water and Sewer Group 1036**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This solicitation is subject to full and open competition and may be bid by Contractors on the City's approved Prequalified Contractors List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$6,960,000**.
4. **BID DUE DATE AND TIME ARE: May 6, 2021 at 2:00 PM**
5. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classifications: **A or C34 or C42**
6. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
 - 6.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	9.3%
2. ELBE participation	13.0%
3. Total mandatory participation	22.3%
 - 6.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
 - 6.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR
 - 6.2.2. Submit Good Faith Effort (GFE) documentation, saved in searchable Portable Document Format (PDF) and stored on a Universal Serial Bus (USB) Type-A, Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document by 5 PM 3 Working Days after the Bid opening if the overall mandatory participation percentage is not met.

All submittals in searchable PDF shall be submitted electronically within the prescribed time identified in the contract documents via PlanetBids by invitation to the point of contact named in the bid provided by the Contract Specialist to all bidders.

7. AWARD PROCESS:

- 7.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.
- 7.2.** Upon acceptance of bids and determination of the apparent low bidder, the City will prepare the contract documents for execution within approximately 21 days of the date of the bid opening. The City will then award the contract upon receipt of properly signed Contract, bonds, and insurance documents.
- 7.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.
- 7.4.** The low Bid will be determined by the Base Bid plus all the Alternates.
- 7.5.** Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone; or for the Base bid plus one or more alternates.

8. SUBMISSION OF QUESTIONS:

- 8.1.** The Director (or Designee) of the Engineering & Capital Projects Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. Any questions related to this solicitation shall be submitted to:

OR:

RMcMinn@sandiego.gov

- 8.2.** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 8.3.** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 8.4.** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

9. PHASED FUNDING: For Phased Funding Conditions, see Attachment B.

10. ADDITIVE/DEDUCTIVE ALTERNATES:

10.1. The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project's budget and enable the City to make a decision whether to incorporate these portions prior to award. The award will be established as described in the Bid. The City reserves the right to award the Contract for the Base Bid only or for the Base Bid plus one or more Alternates.

10.2. For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

INSTRUCTIONS TO BIDDERS

1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. **Joint Venture Bidders Cumulative Maximum Bidding Capacity:** For projects with an engineer's estimate of \$30,000,000 or greater, Joint Ventures submitting bids may be deemed responsive and eligible for award if the cumulative maximum bidding capacity of the individual Joint Venture entities is equal to or greater than the total amount proposed.
 - 1.3.1. Each of the entities of the Joint Venture must have been previously prequalified at a minimum of \$15,000,000.
 - 1.3.2. Bids submitted with a total amount proposed of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification. To be eligible for award in this scenario, the Joint Venture itself or at least one of the Joint Venture entities must have been prequalified for the total amount proposed.
 - 1.3.3. Bids submitted by Joint Ventures with a total amount proposed of \$30,000,000 or greater on a project with an engineer's estimate of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification.
 - 1.3.4. The Joint Venture designated as the Apparent Low Bidder shall provide evidence of its corporate existence and furnish good and approved bonds in the name of the Joint Venture within 14 Calendar Days of receipt by the Bidder of a form of contract for execution.
- 1.4. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification>
- 1.5. Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

2. **ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS:** Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego’s electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.
- 2.1. **BIDDERS MUST BE PRE-REGISTERED** with the City’s bidding system and possess a system-assigned Digital ID in order to submit an electronic bid.
- 2.2. The City’s bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City’s bidding system will keep a history of every login instance including the time of login, and other information about the user’s computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers’ cookies will not be able to log in and use the City’s bidding system.
- 2.3. The City’s electronic bidding system is responsible for bid tabulations. Upon the bidder’s or proposer’s entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 2.4. **BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City’s bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the “Bid Due Date and Time” are not available for review by anyone other than the submitter who has until the “Bid Due Date and Time” to change, rescind or retrieve its proposal should it desire to do so.
- 2.5. **BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCP compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.
- 2.6. **RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.
- 2.7. **BIDS MAY BE WITHDRAWN** by the Bidder only up to the bid due date and time.
- 2.7.1. Important Note: Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user’s internet service provider (ISP), bandwidth, computer hardware and other variables, it may take

time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

- 2.8. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE:** To request a copy of this solicitation in an alternative format, contact the Engineering & Capital Projects Department Contract Specialist listed on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT:

- 3.1.** The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.
- 3.2.** By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.
- 3.3.** The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.
- 3.4.** The Bidder agrees to the construction of the project as described in Attachment "A-Scope of Work" for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.

- 4. BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

5.1. Prior to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City’s web-based vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg>

5.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

6. JOINT VENTURE CONTRACTORS: Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 14 Calendar Days after receiving the Contract forms.

7. INSURANCE REQUIREMENTS:

7.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City’s Notice of Intent to Award letter.

7.2. Refer to sections 5-4, “INSURANCE” of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

8. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”) http://www.greenbookspecs.org/	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)* https://www.sandiego.gov/ecp/edocref/greenbook	2018	PWPI010119-02
City of San Diego Standard Drawings* https://www.sandiego.gov/ecp/edocref/standarddraw	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/ecp/edocref/drawings	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications	2018	PWPI030119-05
CALTRANS Standard Plans https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 5 (CA MUTCD 2014 Rev 5) http://www.dot.ca.gov/programs/safety-programs/camutcd/camutcd-rev5	2014	PWPI042220-09

Title	Edition	Document Number
<p>NOTE: *Available online under Engineering Documents and References at: https://www.sandiego.gov/ecp/edocref/ *Electronic updates to the Standard Drawings may also be found in the link above</p>		

9. **CITY'S RESPONSES AND ADDENDA:** The City, at its discretion, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.
10. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
11. **CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
12. **SUBCONTRACTOR INFORMATION:**
- 12.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions – Section 3-2, "SELF- PERFORMANCE", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor - regardless of tier** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.

- 12.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.
- 12.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.
- 13. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.
- 14. AWARD:**
- 14.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 14.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 14.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.
- 15. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.

- 16. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Engineering & Capital Projects Department, Contracts Division.
- 17. ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
- 18. SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.
- 19. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:**
- 19.1.** For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.
- 19.2.** This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.
- 19.3.** The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.
- 19.4.** At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. By 5PM, 3 working days after the bid opening date, the first five apparent low bidders must provide the City with the original bid security.
- 19.5.** Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original by 5PM, 3 working days after bid opening date shall cause the bid to be rejected and deemed **non-responsive**.

Due to circumstances related to Covid-19, until further notice, all original bid bond submittals must be received by 5 PM, 3 working days after bid opening.

Upon circumstances returning to normal business as usual, the original bid bond shall once again be due by 5 PM the day after bid opening.

Original Bid Bond shall be submitted to:
Engineering & Capital Projects Department, Contracts Division
525 B Street, Suite 750 (7th Floor)
San Diego, California, 92101
To the Attention of the Contract Specialist on the Front Page of this solicitation.

20. AWARD OF CONTRACT OR REJECTION OF BIDS:

- 20.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 20.2.** Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.
- 20.3.** The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 20.4.** Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 20.5.** A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 20.6.** The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.
- 20.7.** Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.
- 20.8.** The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

21. BID RESULTS:

- 21.1.** The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be

made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.

- 21.2.** To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

22. THE CONTRACT:

- 22.1.** The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.
- 22.2.** If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- 22.3.** If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 22.4.** Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.
- 22.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form by the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

- 23. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 24. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 24.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
 - 24.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
 - 24.3.** The City of San Diego Municipal Code §22.3004 for Contractor Standards.
 - 24.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
 - 24.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
 - 24.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
 - 24.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- 25. PRE-AWARD ACTIVITIES:**
- 25.1.** The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified herein and in the Notice of Intent to Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.
 - 25.2.** The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Palm Engineering and Construction Co., Inc., a corporation, as principal, and THE OHIO CASUALTY INSURANCE COMPANY, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of Six Million Twenty Nine Thousand Three Hundred Thirty Eight Dollars and Sixty Cents (6,029,338.60), for the faithful performance of the annexed contract, and in the sum of Six Million Twenty Nine Thousand Three Hundred Thirty Eight Dollars and Sixty Cents (6,029,338.60), for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

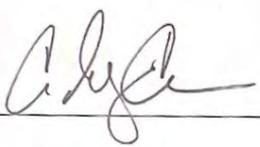
The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

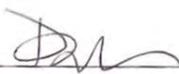
PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By 

Mara W. Elliott, City Attorney

By 

Print Name: Cindy Crocker
Acting Deputy Director
Purchasing & Contracting Department

Print Name: Benny Hsu
Deputy City Attorney

Date: 1/27/2022

Date: 1/27/22

CONTRACTOR PALM ENGINEERING
CONSTRUCTION COMPANY, INC.

SURETY THE OHIO
CASUALTY INSURANCE COMPANY

By: 

By: 
Attorney-In-Fact

Print Name: RASOUL SHAHBAZI, PRESIDENT

Print Name: MARK D. IATAROLA, ATTORNEY-IN-FACT

Date: DECEMBER 16, 2021

Date: DECEMBER 16, 2021

17771 COWAN AVENUE, SUITE 100
IRVINE, CA 92614

Local Address of Surety

949/263-3356

Local Phone Number of Surety

\$48,335.00
PREMIUM IS FOR CONTRACT TERM
AND IS SUBJECT TO ADJUSTMENT
BASED ON FINAL CONTRACT PRICE

Premium

024252748

Bond Number

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

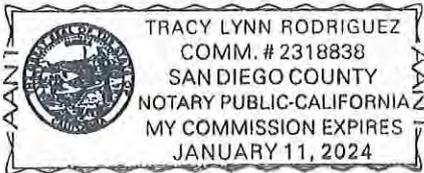
CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of SAN DIEGO }

On 12/16/2021 before me, TRACY LYNN RODRIGUEZ, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer
personally appeared MARK D. IATAROLA
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal and/or Stamp Above

Signature *Tracy Lynn Rodriguez*
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA

Signer's Name: _____

Corporate Officer – Title(s): _____

Corporate Officer – Title(s): _____

Partner – Limited General

Partner – Limited General

Individual Attorney in Fact

Individual Attorney in Fact

Trustee Guardian of Conservator

Trustee Guardian of Conservator

Other: _____

Other: _____

Signer is Representing: _____

Signer is Representing: _____



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8205111-024100

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Helen Maloney; John G. Maloney; Mark D. Iatarola; Sandra Figueroa; Tracy Holmes; Tracy Lynn Rodriguez

all of the city of Escondido state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 29th day of March, 2021.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 29th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16TH day of DECEMBER, 2021.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

- 1. SCOPE OF WORK:** CONSTRUCTION OF AC WATER AND SEWER GROUP 1036 CONSISTS OF THE REPLACEMENT OF approximately 1,512 Linear Feet of 8" VC SEWER MAIN, rehabilitation of approximately 565 Linear feet of 12" VC SEWER MAIN, MANHOLES, LATERALS, and replacement of approximately 10,584 Linear feet 8", 12" AC WATER MAIN, WATER SERVICES, FIRE HYDRANTS, TRENCH AND PAVEMENT RESURFACING, CURB RAMPS, TRAFFIC CONTROL AND ALL OTHER WORK AND APPURTENANCES.

1.1. The Work shall be performed in accordance with:

1.1.1. The Notice Inviting Bids and Plans numbered **41261-01-D through 41261-44-D**, inclusive.

- 2. LOCATION OF WORK:** The location of the Work is as follows:

See **Appendix E – Location Maps**

- 3. CONTRACT TIME:** The Contract Time for completion of the Work shall be **360 Working Days**.

ATTACHMENT B
PHASED FUNDING PROVISIONS

PHASED FUNDING PROVISIONS

1. PRE-AWARD

- 1.1. Within 10 Working Days of the Notice of Intent to Award, the Contractor must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:
 - 1.1.1. Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 7-3, "PAYMENT."
- 1.2. Contractor's failure to perform any of the following may result cancelling the award of the Contract:
 - 1.2.1. Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
 - 1.2.2. Agreeing to a Phased Funding Schedule within **thirty** days of meeting with the City's Project Manager.

2. POST-AWARD

- 2.1. Do not start any construction activities for the next phase until the Notice to Proceed (NTP) has been issued by the City. The City will issue a separate NTP for each phase.
- 2.2. The City may issue the NTP for a subsequent phase before the completion of the preceding phase.

PHASED FUNDING SCHEDULE AGREEMENT

BID NUMBER: K-21-2026-DBB-3

CONTRACT OR TASK TITLE: AC WATER AND SEWER GROUP 1036

CONTRACTOR: PALM ENGINEERING & CONSTRUCTION, Inc.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Work to be completed in Phase 1 shall include, Bonds, Mobilization, Videotaping of existing conditions, community liaison services, preparation of the hazardous waste plan, phase paving, installation of all sewer main (0.39 miles), sewer laterals, and manholes included on plan sheets 22-26 of drawing number 41261-D, and installation of high-lining, installation of water mains phases 1,2,7 and 8 (0.74 miles), fire hydrants, appurtenances included on plan sheets 3-7 and 19-21 of drawing number 41261-D, including street resurfacing (slurry seal using PUD funds) this phase also includes work associated with bid alternate A & B, accessibility improvements and surface striping.	Notice to Proceed (NTP)	11/30/2022	\$1,662,475.05 (B18121 W) \$1,411,352.35 (B18123 S) Phase-1 subtotal: \$3,073,827.40
2	Work to be completed in phase 2 shall include installation of high-lining, installation of water mains phases 3-6 (1.26 miles), fire hydrants, appurtenances, included on plan sheets 8-18 of the drawing number 41261-D, and remaining of the construction activities associated with the contract & specifications including work related to plan sheets 41261-01-D to 41261-44-D. Including street resurfacing (slurry seal using PUD funds) this phase also includes work associated with bid alternate A & B, accessibility improvements and surface striping. Alternate C is not being awarded.	12/01/2022	Notice to completion (NOC)	\$2,955,511.20 (B18121 W) \$0.00 (B18123 S)
Contract Total				\$6,029,338.60

Notes:

- 1) WHITEBOOK section 7-3.10, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.

3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO

PRINT NAME: Nabil Batha
Construction Senior Engineer

Signature: Nabil Batha

Date: 12/15/2021

PRINT NAME: Nicole George
Design Senior Engineer

Signature: Nicole George

Date: 12/15/2021

CONTRACTOR

PRINT NAME: Rasoul SHAHBAZI

Title: President

Signature: R. Shahbazi

Date: 12/14/21

ATTACHMENT C

RESERVED

ATTACHMENT D
PREVAILING WAGE

PREVAILING WAGE

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
 - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
 - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
 - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
 - 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.

- 1.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 1.3.1.** Contractor and their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."
- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Prevailing Wage Unit at 858-627-3200.

- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 1.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 1.11. List of all Subcontractors.** The Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.
- 1.12. Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:

- 1.12.1.** Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1).
- 1.12.2.** Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego, but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).
- 1.12.3.** List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 1.11 above. (Labor code section 1773.3).

ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2018 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2018 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 - a) General Provisions (A) for all Construction Contracts.

PART 0 – EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

SECTION A – GENERAL REQUIREMENTS

0-12 CONTRACT RECORDS AND REPORTS. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall maintain records of all subcontracts and invoices from your Subcontractors and Suppliers for work on this project. Records shall show name, telephone number including area code, and business address of each Subcontractor, Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.
2. You shall retain all records, books, papers, and documents pertinent to the Contract for a period of not less than 5 years after Notice of Completion and allow access to said records by the City's authorized representatives.
3. You shall submit the following reports using the City's web-based contract compliance (Prism® portal):
 - a) **Monthly Payment.** You shall submit Monthly Payment Reporting by the 10th day of the subsequent month. Incomplete and/or delinquent reporting may cause payment delays, non-payment of invoices, or both.
4. The records maintained under item 1, described above, shall be consolidated into a Final Summary Report, certified as correct by an authorized representative of the Contractor. The Final Summary Report shall include all subcontracting activities and be sent to the EOCP Program Manager prior to Acceptance. Failure to comply may result in assessment of liquidated damages or withholding of retention. The City will review and verify 100% of subcontract participation reported in the Final Summary Report prior to approval and release of final retention to you. In the event your Subcontractors are owed money for completed Work, the City may authorize payment to subcontractor via a joint check from the withheld retention.

SECTION 1 – GENERAL, TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS. To the “WHITEBOOK”, items 43, 56, 69, and 102, DELETE in their entirety and SUBSTITUTE with the following:

43. **Field Order** - A Field Order is a written agreement by the Engineer to compensate you for Work items in accordance with 2-8, “EXTRA WORK” or 2-9, “CHANGED CONDITIONS”. A Field Order does not change the Contract Price, Contract Time, or the scope intent of the Contract. The unused portion of the Field Order shall revert to the City upon Acceptance.
56. **Notice of Completion (NOC)** - A document recorded with the County of San Diego to signify that the Contract Work has been completed and accepted by the City.
69. **Punchlist** - A list of items of Work or corrections generated after a Walk-through that is conducted when you consider that the Work and Services are complete, and as verified by the Owner. The Punchlist may be completed in phases if defined in the Contract.
102. **Walk-through** - An inspection the City uses to verify the completion of the Project or phase of the Project and to generate a Punchlist prior to Acceptance.

To the “WHITEBOOK”, item 54, “Normal Working Hours”, ADD the following:

The **Normal Working Hours** are **8:30 AM** to **3:30 PM**.

Night Work is required on Garnet Avenue per the traffic control plan. **Night Working Hours** shall be **9:00PM** to **5:00AM**

To the “WHITEBOOK”, ADD the following:

108. **Acceptance** – When all of the Contract Work, including all Punchlist items, is deemed officially complete by the City Asset Owning Department or Deputy City Engineer.
109. **Occupancy** – When the Owner deems a building is ready for use, the Owner will issue a certificate of Occupancy in writing.
110. **Substantial Completion** – When all Contract Work is deemed complete by the Contractor in writing, and as verified by the Owner. Substantial Completion may be completed in phases if defined in the Contract.

1-7.1.3 Requests for Information (RFI). To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. Should You discover a conflict, omission, errors in the Contract Documents, differences with existing field conditions, or have any questions concerning interpretation or clarification of Contract Documents, or when you propose

deviations to the standards or design, you shall submit a Request for Information (RFI) to the City regarding your question or clarification within **1 Working Day**.

2. Your RFI shall meet the following requirements:
 - a) All RFIs, whether by You or your Subcontractor or supplier at any tier, shall be submitted by You to the City.
 - b) RFIs shall be numbered sequentially.
 - c) You shall clearly and concisely set forth the single issue for which interpretation or clarification is sought, indicate Specification Section numbers, Contract Drawing numbers, and details, or other items involved, and state why a response is required from the City.
 - d) RFIs shall be submitted within **1 Working Day** in order that they may be adequately researched and answered before the response affects any critical activity of the Work.
 - e) Should You believe that a response to an RFI causes a change to the requirements of the Contract, You shall, before proceeding, give written notice to the City, indicating that You believe that City response to the RFI to be a Change Order. Failure to give such written notice within **5 Working Days** of receipt of the City's response to the RFI shall waive Your right to seek additional time or cost.
3. The City will respond to RFIs within **5 Working Days** unless the City notifies You in writing that a response will take longer. The **5 Working Days** shall begin when the RFI is received and dated by the City. Responses from the City will not change any requirement of the Contract unless so noted by the City in the response to the RFI. The City will not issue a Change Order for Extra Work or additional time when the issue raised in the RFI was due to your fault, neglect, or any unauthorized deviations from the project design or specifications.
4. If You proceed in resolving a conflict, omission, or any error in the Contract Documents without sending the City an RFI in accordance with the requirements stated above, the City may require You to remove such work at Your cost or back charge You the cost to remove this work.

1-7.2 Contract Bonds. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Before execution of the Contract, file payment and performance bonds with the City to be approved by the Board in the amounts and for the purposes noted. Bonds shall be executed by a responsible surety as follows:
 - a) If the Work is being funded with state or local money, consistent with California Code of Civil Procedure §995.670, the Surety shall be an "admitted surety" authorized by the State of California Department of Insurance to transact surety insurance in the State.

- b) If the Work is being funded with federal money, the Surety shall be listed in the U.S. Treasury Department Circular 570 and shall be in conformance with the specified Underwriting Limitations.

To the "WHITEBOOK", item 2, subsection "a", subsection "i", DELETE in its entirety and SUBSTITUTE with the following:

- i. A "Payment Bond" (Materials and Labor Bond) is optional. If no bond is submitted, no payment shall be made until 35 Calendar Days after Acceptance and any lien requirements have been fulfilled. If a bond is submitted, progress payments shall be made in accordance with these Specifications.

To the "WHITEBOOK", item 2, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) For Contracts over \$100,000:
 - i. A "Payment Bond" (Materials and Labor Bond) for 100% of the Contract Price to satisfy claims of material Suppliers and of mechanics and laborers employed on the Work. You shall maintain the bond in full force and effect until Acceptance and until all claims for materials and labor are paid and shall otherwise comply with the Government Code.
 - ii. A "Faithful Performance Bond" for 100% of the Contract Price to guarantee faithful performance of Work, within the time prescribed and in a manner satisfactory to the City, that materials and workmanship shall be free from original or developed defects.

To the "WHITEBOOK", item 7, DELETE in its entirety and SUBSTITUTE with the following:

- 7. You shall require the Surety to mail its standard "Bond Status" form to the Engineer at the following address:

Deputy Director
Construction Management and Field Engineering Division
9573 Chesapeake Drive San Diego, CA 92123

SECTION 3 - CONTROL OF THE WORK

3-2 SELF-PERFORMANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. You shall perform, with your own organization, Contract Work amounting to at least **50%** of the Base Bid.

3-3 SUBCONTRACTORS. To the "WHITEBOOK", ADD the following:

- 6. When a Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the City, you shall remove such Subcontractor immediately upon written request of the City, and shall request approval of a replacement Subcontractor to perform the Work in accordance with California Public

Contract Code (PCC), Subletting and Subcontracting, Section 4107, at no added cost to the City.

3-8.4 Supporting Information. To the "WHITEBOOK", ADD the following:

4. You shall collect and submit rehabilitation data spreadsheets along with monthly invoices for the following rehabilitation Work (see **Appendix I – Rehabilitation Data Collection – Laterals Sample Data Template, Appendix J – Rehabilitation Data Collection – Sewer Main, Appendix K – Rehabilitation Data Collection – Manholes Sample Data Template**).
 - a) Laterals
 - b) Sewer Mains
 - c) Manholes

3-8.7 Contractor's Quality Control Plan (QCP). To the "WHITEBOOK", ADD the following:

7. The establishment and implementation of a Quality Control Plan (QCP), as defined in the standard specifications, shall be required for this Contract. See example in **Appendix G - Sample Contractor's Daily Quality Control Inspection Report**.

3-8.7.1 QCP Submittal. To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. The QCP shall be organized to address, at a minimum, the following items:
 - a) Quality Control Administrator
 - b) Surface preparation and paving schedule
 - c) Inspection and documentation requirements (Daily Quality Control Inspection Report)
 - d) Material quality control testing plan
 - e) Documentation of quality control activities
 - f) Procedures for corrective action when quality control and/or acceptance criteria are not met
 - g) If paving Work will be in areas prone to shade, provide curing time of product

3-8.7.4 Documentation. To the "WHITEBOOK", item 3, section "a", subsection "viii", DELETE in its entirety and SUBSTITUTE with the following:

- viii. Documentation that the following have been verified to be in compliance:
 - Proper storage of materials and equipment.
 - Proper operation of all equipment.
 - Adherence to plans and technical specifications.
 - Review of quality control tests.

- Safety inspection.
- Mixing properties of products against the approved submittal limits.

3-10 SURVEYING. To the “GREENBOOK” and “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

3-10 SURVEYING (DESIGN-BID-BUILD).

3-10.1 General.

1. You shall provide all required site layout and general grade checking work not specified in 3-10.2, “Survey Services Provided by City”.
2. Notify the City, in writing, at least 2 Working Days prior to requesting survey services provided by the City.

3-10.2 Survey Services Provided by City.

1. Monument Perpetuation, including mark-outs. You are responsible for requesting the coordination of these services.
 - a) If at any time a monument will be destroyed or covered, such monument shall be perpetuated in accordance with state law. Inform the City Engineering Support & Technical Services Division’s Land Survey Section (LSS), via project Resident Engineer, if any monument will be destroyed or covered during any construction activity.
2. The following surveying services (including construction staking), as defined in California Business & Professions Code §8726, shall be provided by the City:
 - a) Locating or establishing alignment or elevations of all features or structures shown on project Plans.
 - b) Locating or establishing geodetic control points for all site feature or structure locations.
 - c) Produce topographic as-built data.
 - d) Locating, establishing, or re-establishing monuments, property lines, right-of-way lines, or easement lines.
 - e) Verifying structure finish grade elevations.
3. All construction survey stakes, control points, and other survey related marks provided by the City shall be preserved for the duration of the Project. If any construction survey stakes, control points, or other survey related marks are lost or disturbed and need to be replaced, such replacement shall be performed at your expense.

3-10.3 Payment.

1. The payment for site layout and general grade checking Work, coordination, and preservation of all survey related marks shall be included in the Contract Price.

3-12.7 Drinking Water Discharges Requirements. To the “WHITEBOOK”, ADD the following:

1. You shall record the results for each discharge event on the City’s Drinking Water Discharge Monitoring form included as **Appendix H - Monthly Drinking Water Discharge Monitoring Form.**

3-13.1 Completion. To the “GREENBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. You shall submit a written assertion that the Work has been completed and is ready for Owner Acceptance. If, in the Engineer’s judgment, the Work has been completed in accordance with the Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date that you are relieved from responsibility to protect and maintain the Work and to which liquidated damages will be computed.
2. Substantial Completion, in accordance with 3-13.1.1, “Requirements Before Requesting Substantial Completion”, shall be completed in phases for this project as defined below:

Phase	Work Description	Limits of Work
1	College Site (59 th St, Madison Av, Esther St)	41216-20-D to 21 41216-24-D to 26
2	All other areas	All other sheets

3-13.1.1 Requirements Before Requesting a Walk-through. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

3-13.1.1 Requirements Before Requesting Substantial Completion.

1. The following items are required prior to requesting a Substantial Completion:
 - a) Remove temporary facilities from the Site.
 - b) Thoroughly cleaning the Site and removing all mark outs and construction staking.
 - c) Provide completed and signed Red-lines in accordance with 3-7.3 “Redlines and Record Documents”.
 - d) Provide all material and equipment maintenance and operation instructions and/or manuals.
 - e) Provide all tools which are permanent parts of the equipment installed in the Project.
 - f) Provide and properly identify all keys for construction and all keys for permanent Work.
 - g) Provide all final Special Inspection reports required by the applicable building Code.

- h) Provide all items specified to be supplied as extra stock. Wrap, seal, or place in a container all items as necessary to allow for storage by the City for future use. Verify the specified quantities.
- i) Ensure that all specified EOCP and certified wage rate documentations covering the Contract Time have been submitted.
- j) If the Work includes installing an irrigation system, provide the spare parts for the proposed irrigation system as specified in the Special Provisions.
- k) If the Work includes sewer and storm drain installations, the inspection shall include televising in accordance with 306-18, "VIDEO INSPECTION".
- l) If the Work includes a Plant Establishment Period, Work in accordance with 801-6, "MAINTENANCE AND PLANT ESTABLISHMENT" shall be completed prior to requesting Substantial Completion, unless approved otherwise by the Owner.
- m) Notify the Engineer to arrange a final inspection of any permanent BMPs installed.

3-13.1.2 Walk-through and Punchlist Procedure. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall notify the Engineer 15 Working Days in advance of date of anticipated Substantial Completion to allow time for Engineer to schedule a Walk-through. After you complete the requirements in 3-13.1.1, "Requirements Before Requesting Substantial Completion" and when you consider that the Work is Substantially Complete, you will notify the Engineer in writing that the Project is Substantially Complete. The Engineer will review your request and determine if the Project is ready for a Walk-through, by verifying whether you have completed all items as required by 3-13.1.1, "Requirements Before Requesting Substantial Completion". Within 7 Working Days, the City will either reject your request of a Walk-through in writing or schedule a Walk-through inspection. The Engineer shall facilitate the Walk-through.
2. The following documents shall be provided at the time of your Walk-through request: As-Built markup, Plans, specifications, technical data such as submittals and equipment manuals, draft final payment, warranties, material certifications, bonds, guarantees, maintenance service agreements, and maintenance and operating manuals.
3. Written warranties, except manufacturer's standard printed warranties, shall be on a letterhead addressed to you. Warranties shall be submitted in the format described in this section, modified as approved by the City, to suit the conditions pertaining to the warranty. Lack of submitting these items will delay start of Walk-through.

4. The Engineer will provide you with the Punchlist within 15 Working Days after the date of the Walk-through. The City shall not provide a preliminary Punchlist.
5. If the Engineer finds that the Project is not Substantially Complete as defined herein, the Engineer will terminate the Walk-through and notify you in writing.
6. If, at any time during the Engineer's evaluation of the corrective Work required by the Punchlist, the Engineer discovers that additional corrective Work is required, the Engineer may include that corrective Work in the Punchlist.
7. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, and all operation and maintenance manuals have been accepted by the City.
8. The Engineer shall meet with you within 5 Working Days of notification that all Punchlist items are corrected. You shall complete the Punchlist within 30 Working Days, and Working Days will continue to be counted until Acceptance of the Project.

3-13.2 Acceptance. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall provide the completed, signed, and stamped DS-563 to the Engineer prior to Acceptance.
2. You shall deliver the final As-builts and final billing prior to Acceptance.
3. You shall assemble and deliver to the Engineer a Final Summary Report and Affidavit of Disposal prior to Acceptance.
4. Acceptance shall occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, you have fully performed the Contract, the Engineer will recommend to the City Engineer that your performance of the Contract be accepted. You shall receive notification of Acceptance in writing from the Owner and counting of working days shall cease and Warranty begins.
5. Retention can be released 35 Calendar Days after NOC. Submit your request for retention to the Resident Engineer and they will mail to you a "Release of Claims" form which shall be completed and returned before the retention will be released.

3-13.3 Warranty. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City has Beneficial Use or takes Occupancy of the project earlier (excluding water, sewer, and storm drain projects).
2. You shall warranty the Work free from all latent defects for 10 years and patent defects for a period of 4 years.

3. The warranty period for specific items covered under manufacturers' or suppliers' warranties shall commence on the date they are placed into service at the direction of the Engineer in writing.
4. All express warranties from Subcontractors, manufacturers', or Suppliers', of any tier, for the materials furnished and Work performed shall be assigned, in writing, to the City, and shall be delivered to the Engineer prior to the Acceptance of your performance of the Contract.
5. Replace or repair defective materials and workmanship in a manner satisfactory to the Engineer after notice to do so from the Engineer and within the time specified in the notice. If you fail to make such replacements or repairs within the time specified in the notice, the City may perform the replacement or repairs at your expense. If you fail to reimburse the City for the actual costs, your Surety shall be liable for the cost
6. Items that shall be warrantied free from defective workmanship and materials for a period longer than 1 year are as follows:

Specified Item	Minimum Warranty Period
Detectable Warning Tile Construction	3 Years of Manufacturer's Warranty
All Work Under SECTION 500 – PIPELINE REHABILITATION	3 Years
Fiber Optic Interconnect Cables	2 Years
Luminaires*	10 Years of Manufacturer's Warranty
LED Signal Modules	3 Years of Manufacturer's Warranty
Field Devices Associated with 700-6.3, "Adaptive Control Note"	See 700-6.3.9, "Warranty"

* Provide documentation verifying that the induction luminaire models being offered for the Project are covered by the 10 year warranty.

7. If installed, you shall provide the City and property owner a copy of the manufacturer's warranty for private sewer pumps, including the alarm panel and all other accessories.
 - a) You shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
 - b) Nothing in here is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.
 - c) The warranty shall include all components. The form of the warranty shall be approved by the Engineer in accordance with 3-13.3.2, "Warranty Format Requirements".

8. If, during the warranty period, any item of the Work is found to be Defective Work, you shall correct it promptly after receipt of written notice from the City to do so. The warranty period shall be extended with respect to portions of the Work corrected as part of the warranty requirements.

3-15.3 Coordination. To the "WHITEBOOK", ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of Pacific Beach community and College Area. See **Appendix F - Adjacent Projects Map** for the approximate location. Coordinate the Work with the adjacent projects as listed below:
 - a) College West Improv 2, Jonard Talamayan 619- 533-4116
 - b) Pacific Beach Trunk Sewer Interconnect Upgrade, Fernando Lasaga, 619 533-7406
 - c) Sewer Group 786, Amy Mills, 619 533-5164

SECTION 4 - CONTROL OF MATERIALS

4-3.6 Preapproved Materials. To the "WHITEBOOK", ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-6 TRADE NAMES. To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item no less than 15 Working Days prior to Bid due date and on the City's Product Submittal Form available at:

<https://www.sandiego.gov/ecp/edocref/>

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-4 INSURANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

5-4 INSURANCE.

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

5-4.1 Policies and Procedures.

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.

2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

5-4.2 Types of Insurance.

5-4.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

5-4.2.2 Commercial Automobile Liability Insurance.

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles (“Any Auto”).
2. All costs of defense shall be outside the limits of the policy.

5-4.2.3 Contractors Pollution Liability Insurance.

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor’s insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

5-4.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.

1. You shall provide at your expense or require your Subcontractor to provide, as described below, Contractors Hazardous Transporters Pollution Liability

Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.

2. All costs of defense shall be outside the limits of the policy. The deductible shall not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies shall be procured before the Work commences and shall be maintained for the duration of this Contract. Claims Made policies shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work under this Contract without advancing the retroactive date.
5. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

5-4.3 Rating Requirements. Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

5-4.3.1 Non-Admitted Carriers. The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

5-4.4 Evidence of Insurance. Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its

behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

5-4.5 Policy Endorsements.

5-4.5.1 Commercial General Liability Insurance.

5-4.5.1.1 Additional Insured.

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,
 - c) your Work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products, or
 - c) premises owned, leased, controlled, or used by you.

5-4.5.1.2 Primary and Non-Contributory Coverage. The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.1.3 Project General Aggregate Limit. The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project

General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

5-4.5.2 Commercial Automobile Liability Insurance.

5-4.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

5-4.5.3 Contractors Pollution Liability Insurance Endorsements.

5-4.5.3.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,
 - c) your work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

5-4.5.3.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to

operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.3.3 Severability of Interest. For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

5-4.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.

5-4.5.4.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,
 - c) your work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

5-4.5.4.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.4.3 Severability of Interest. For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply

separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

5-4.6 Deductibles and Self-Insured Retentions. You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

5-4.7 Reservation of Rights. The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

5-4.8 Notice of Changes to Insurance. You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

5-4.9 Excess Insurance. Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

5-4.11 Workers' Compensation Insurance and Employers Liability Insurance.

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

5-4.11.1 Waiver of Subrogation. The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

ADD:

5-10.1.3 Weekly Updates Recipients.

1. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Nicole Salem, Senior Engineer, NSalem@sandiego.gov

Jamal Sherzai, Project Manager, JSherzai@sandiego.gov

Resident Engineer, TBA, XXX@sandiego.gov

5-10.3 Exclusive Community Liaison Services. To the "WHITEBOOK", ADD the following:

2. You shall retain an Exclusive Community Liaison for the Project that shall implement Work in accordance with the specifications described in 5-10.2 "Community Outreach Services" and 5-10.3 "Exclusive Community Liaison Services".

5-13 ELECTRONIC COMMUNICATION. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Virtual Project Manager shall be used on this Contract.
2. You shall post all communications addressed to the Engineer concerning construction including RFIs, submittals, daily logs including the Weekly Statement of Working Days (WSWD), Storm Water, and transmittals to the Virtual Project Manager (VPM) website established for the Projects. This shall not supersede any Federal requirements.
3. Maintain a list of scheduled activities including planned and actual execution dates for all major construction activities and milestones defined in the approved Schedule.
4. Review and act on all communications addressed to you in the VPM project website.
5. A user's guide to the VPM system is available on the City's website and shall be provided to you at the Pre-construction Meeting. Refer to the VPM training videos and forms at the location below:
<https://www.sandiego.gov/ecp/edocref/>
6. Submit the Sensitive Information Authorization Acknowledgement Form and VPM User Agreement located in the VPM user's guide at the Pre-construction Meeting.

5-15.1 General. To the "WHITEBOOK", item 10, DELETE in its entirety and SUBSTITUTE with the following:

10. If your construction activities have encountered flammable liquids or other hazardous substances, you shall ensure that construction staff have the required Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. Construction staff shall include: City Engineers, City Laboratory Technicians, and City staff that perform onsite inspections.

- a) If your Work encounters flammable liquids or other hazardous substances, you shall be responsible for scheduling training for all construction staff to attend and for submitting verification to the Engineer that construction staff have the required HAZWOPER certification prior to continuing that Work in that area. You shall maintain the HAZWOPER certifications annually until the construction activities triggering the requirement is complete, as approved by the Resident Engineer.
- b) You shall be responsible for implementing, training, and submitting verification to the Engineer that construction staff have the required HAZWOPER certification before the Notice to Proceed (NTP) has been issued.

5-15.17 Payment. To the "WHITEBOOK", ADD the following:

- 5. The payment for Hazardous Waste Operations and Emergency Response (HAZWOPER) certification and training for construction staff shall be included in the allowance Bid item for "Hazardous Waste Operations and Emergency Response (HAZWOPER) Certification".

SECTION 6 - PROSECUTION AND PROGRESS OF THE WORK

6-1.1 Construction Schedule. To the "GREENBOOK", paragraph (1), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

After notification of award of the Contract and prior to the start of any Work, you shall submit your proposed Cost Loaded Construction Schedule to the Engineer at the pre-construction meeting.

To the "WHITEBOOK", item 1, subsection "e" and "s", DELETE in their entirety and SUBSTITUTE with the following:

- e) Monthly progress payments are contingent upon the submittal of an updated Schedule to the Engineer. The Engineer may refuse to process the whole or part of any monthly payment if you refuse or fail to provide an acceptable schedule.
- s) Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.
 - i. Refer to the Sample City Invoice materials in **Appendix D – Sample City Invoice with Cash Flow Forecast** and use the format shown.
 - ii. See also the "Cash Flow Forecast Example" at the location below:

<https://www.sandiego.gov/ecp/edocref/>

6-1.1.2 Contracts More Than \$500,000 In Value. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Provide the Schedule to the Engineer in accordance with 6-1.1, "Construction Schedule" and 6-1.2, "Commencement of the Work".

To the "WHITEBOOK", item 2, DELETE in its entirety.

6-1.2 Commencement of the Work. To the "WHITEBOOK", ADD the following:

5. You shall submit a Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule" at the scheduled pre-construction meeting.
6. If a Cost Loaded Construction Schedule is not provided, the pre-construction meeting will still be held. The Contract Time shall commence at issuance of the NTP, but you shall be limited to the following activities until the Cost Loaded Construction Schedule has been submitted to the Resident Engineer with no exceptions taken:
 - a) Mobilization of your trailers, associated utility setup, and grading for trailer area
 - b) Permit Procurement
 - c) Fencing and temporary utilities for your storage areas
 - d) Submittal of anticipated critical path submittals

6-1.5.2 Excusable Non-Compensable Delays. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

6-1.5.2 Excusable Non-Compensable and Concurrent Delays.

1. The City shall only issue an extension of time for Excusable Delays that meet the requirements of 6-4.2, "Extensions of Time" for the following circumstances:
 - a) Delays resulting from Force Majeure.
 - b) Delays caused by weather.
 - c) Delays caused by changes to County, State, or Federal law.
2. When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay.
3. When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time, but shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable Compensable Delay.

6-2.1 Moratoriums. To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed below:
 - a) Garnet Ave between Olney Street and Balboa Ave, intersection of Hornblend Street and Balboa Ave, Olney Street between Oliver Ave and Pacific Beach Drive, Area between Noyes Street and Olney Street. Summer Moratorium @ Beach from Memorial Day to Labor Day (inclusive). See **Appendix L – Moratorium Map**
 - Applies to work on Balboa Av and Garnet Av

6-4.2

Extensions of Time. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
 - a) If you believe this event requires a Change Order, you shall submit a **written Change Order request with a report to** the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.
3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, “Excusable Delays” unless you demonstrate, through an analysis of the critical path, the following:
 - a) The event causing the delay impacted the activities along the Project’s critical path.
 - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer’s weekly document.
 - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, “Claims”.

6-4.4

Written Notice and Report. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with 6-4.2, “Extensions of Time”, will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

ADD:

6-6.1.1

Environmental Document.

1. The City of San Diego has prepared an **Addendum to Mitigated Negative Declaration, Notice of Determination, and Errata** for **AC Water & Sewer Group 1036**, Project No. **658730**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Addendum to Mitigated Negative Declaration, Notice of Determination, and Errata** as set forth in **Appendix A**.

2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

6-6.2.1 Archaeological and Native American Monitoring Program. To the "WHITEBOOK", ADD the following:

4. You shall retain a qualified archaeologist and Native American Monitor for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the archaeologist and Native American monitor. Notify the Engineer before noon of the Working Day before monitoring is required. See 3-5, "INSPECTION" for details.

SECTION 7 – MEASUREMENT AND PAYMENT

7-3.1 General. To the "GREENBOOK" and "WHITEBOOK", paragraph (8), DELETE in its entirety and SUBSTITUTE with the following:

If, within the time fixed by law, a properly executed notice to stop payment is filed with the City, due to your failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment in accordance with applicable laws.

To the "WHITEBOOK", ADD the following:

1. Unless specified otherwise, the Contract Price includes use, consumer, and other taxes mandated by applicable legal requirements.
2. As provided in §7105 of the California Public Contract Code, if the Contract is not financed by revenue bonds, you are not responsible for the cost of repairing or restoring damage to the Project when damage was proximately caused by an act of God, in excess of 5% of the Contract Price, if the following occur:
 - a) The Project damaged was built in accordance with the Contract requirements.
 - b) There are no insurance requirements in the Contract for the damages.

7-3.2 Partial and Final Payment. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. The Final Payment, which is the release of Retention, shall be paid to you after you have successfully submitted the following required documents:
 - a) An affidavit that payrolls and bills for materials, equipment, and other indebtedness connected with the Work for which the City or the City's property might be responsible for or encumbered by.
 - b) A certificate evidencing that insurances required by the Contract Documents shall remain in force after Final Payment is currently in effect and shall not be canceled or allowed to expire until at least a 30 Calendar Days prior written notice has been given to the Engineer.
 - c) Consent of Surety to Final Payment.
 - d) If required by the Engineer, other data establishing payment or satisfaction of obligations such as receipts, releases and waivers of liens, claims, and security interests or encumbrances arising out of the

Contract Documents. If a Subcontractor refuses to furnish a release or waiver required by the City, you may furnish a bond satisfactory to the Engineer to indemnify the City against such lien.

- e) If required in the Contract Documents, the successful completion and submittal of the required reports such as construction demolition, waste recycling, and hydrostatic discharge reports.
- f) Required EOCP Final Summary Report in accordance with Section 0-12, "Contract Records and Reports", record drawings, operations manuals, test reports, warranty documentation, and UL labels shall be submitted before requesting the release of retention.
- g) Acceptance of the completed Project by the asset owning Department.

To the "WHITEBOOK", ADD the following:

- 2. Submit an invoice for payment after you successfully complete the required documents and the City will pay the invoice within 30 Calendar Days. The City will pay 6% annually for late retention payments.

7-3.2.1 Application for Progress Payment. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. The City shall not pay progress or partial payments until you submit to the Engineer an acceptable updated Schedule. It is solely your responsibility to prepare and submit the Schedule updates.

7-3.2.2 Amount of Progress Payments. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. The City will pay 6% annually for late progress payments.
- 2. Progress payments will be considered "late" if the following occur:
 - a) The City does not pay the contractor within 30 Calendar Days from receipt of an undisputed and properly submitted invoice. A properly submitted payment invoice means that the City has approved for payment the entire invoice amount or if the Resident Engineer has not disputed any portion of the application within 7 Calendar Days of the date of submission.
 - b) The application for payment does not require signing of a Contract Change Order.
- 3. The Engineer may withhold payment for any of the following reasons:
 - a) Defective or incomplete Work.
 - b) Not providing an updated and accurate Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule".
 - c) Stop notices, wage orders, or other withholdings required by Applicable Law. Your failure to comply with 5-3.3, "Payroll Records" and the Contractor Registration and Electronic Reporting System requirements of the Contract Documents.

4. The Engineer may back charge the contract for any of the following reasons:
 - a) Defective or incorrect Work not remedied.
 - b) Damage to City property or a third party's property that was caused by you.
 - c) Liquidated Damages.

7-3.2.3 Waiver of Claims at Final Payment. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your acceptance of Final Payment constitutes a waiver of affirmative Claims by you, except those previously made in writing and identified as unsettled at the time of Final Payment.

7-3.2.4 Withholding of Payment and Back Charge. To the "WHITEBOOK", DELETE in its entirety.

7-3.4.1 Payment. To the "WHITEBOOK", ADD the following:

4. The cost for mobilization excludes the costs for all mobilization and demobilization Work associated with each paving phase. The costs for all mobilization and demobilization Work associated with each paving phase shall be paid in accordance with 306-1.2.1, "Payment".

7-3.5.1 General. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Unit Bid prices shall not be subject to adjustment regardless of quantity used, or if none is used, for the following Bid items:
 - a) imported backfill
 - b) shoring
 - c) water services
 - d) house connection sewers
 - e) water pollution control items
2. Unit Bid prices for "Potholing Existing Utilities Not Shown on Plans (Depth up to 7 feet)" shall not be subject to adjustment regardless of quantity used or if none is used.
3. Upon discovery and prior to the Work, you shall notify the Resident Engineer if there is a change in Bid item quantity that increases the total Contract Price by 5% or \$100,000 or more, whichever is less.

7-3.9 Field Orders. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. If the cumulative total of Field Order items of Work does not exceed the "Field Orders" Bid Item, the City shall pay those Field Orders as shown below:

**TABLE 7-3.9
FIELD ORDER LIMITS**

Contract Price	Maximum Field Order Work Amount
Less than \$100,001	\$2,500

Contract Price	Maximum Field Order Work Amount
\$100,001 to \$1,000,000	\$5,000
\$1,000,001 to \$5,000,000	\$10,000
\$5,000,001 to \$15,000,000	\$20,000
\$15,000,001 to \$30,000,000	\$40,000
Greater than \$30,000,000	\$50,000

2. Field Order items of Work for contracts greater than \$15,000,000 will require additional approvals from the City prior to its approval by the Resident Engineer.
3. The City will issue a Field Order only after the City's acceptance of the cost of the field order amount.
4. Field Orders shall not be used to add scope or to include extensions of time related to changes in work.
5. If in the event there is a change related to the critical path on the project which necessitates an extension of time and the change amount is within the Field Order limits shown on Table 7-3.9, then a Field Order can be issued to compensate you for the approved costs. Any extensions of time associated with the change shall be included in a subsequent Change Order and no additional compensation shall be granted as part of the change order for the extension of time.
6. The unused portions of Field Orders Bid item shall revert to the City upon Acceptance.

7-4.3

Markup. To the "WHITEBOOK", item 4, DELETE in its entirety and SUBSTITUTE with the following:

4. When a Subcontractor is performing Extra Work, the allowance for overhead and profit shall be applied to the labor, materials, and equipment costs of the Subcontractor as follows:
 - a) Regardless of the number of a Subcontractor's tasks for Extra Work, you may only apply 10% for the first \$50,000 of the Subcontractor's portion of accumulated total cost then 5% for any remaining costs. You shall not apply 10% to any costs after the first \$50,000 of accumulated total costs from performing Extra Work.
 - b) If the accumulated costs of single or subsequent tasks exceed the \$50,000 threshold, you shall instead only apply 5% to any amounts in excess of the \$50,000.
 - c) Regardless of the number of hierarchical tiers of Subcontractors, you may only markup a Subcontractor's Work once.

SECTION 203 - BITUMINOUS MATERIALS

203-6.3.1

General. To the "WHITEBOOK", ADD the following:

3. Asphalt concrete for Job Mix Formula (JMF) and Mix Designs shall be Type III and shall not exceed 15% RAP.

SECTION 209 – PRESSURE PIPE

209-1.1.1 General. To the “WHITEBOOK”, ADD the following:

2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.
3. Refer to AWWA C900-16 for all references to AWWA C905.

SECTION 301 – SUBGRADE PREPARATION, TREATED MATERIALS, AND PLACEMENT OF BASE MATERIALS

301-1.6 Preparatory Repair Work. To the “WHITEBOOK”, item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Prior to the placement of any asphalt concrete or application of slurry, you shall complete all necessary preparation and repair Work and shall obtain approval by the Resident Engineer.

ADD the following:

13. Asphalt concrete shall be Type III and shall not exceed 15% RAP in accordance with 203-6.3.1, “General”.

SECTION 302 – ROADWAY SURFACING

302-4.5 Scheduling, Public Convenience and Traffic Control. To the “GREENBOOK”, paragraphs (1) and (2), DELETE in their entirety and SUBSTITUTE with the following:

1. In addition to the requirements of Part 6, you shall comply with the following:
 - a) At least 5 Working Days prior to commencing the Work, you shall submit your proposed Schedule to the Engineer for approval.
 - b) Based upon the approved schedule, you shall notify residents and businesses of the Work and post temporary “No Parking” signs 72 hours in advance.
 - c) Requests for changes in the approved Schedule shall be submitted to the Engineer for approval at least 3 Working Days before the street is scheduled to be sealed.

302-4.12.2 Application. To the “WHITEBOOK”, item 1, ADD the following:

- c) RPMS shall only be placed when ambient temperature is 50° F or higher.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-5.1.1 General. To the “WHITEBOOK”, ADD the following:

7. For the purposes of this section, the terms “walk” and “access ramp” shall be synonymous with “sidewalk” and “curb ramp and pedestrian ramp”, respectively.

303-5.10.2 Payment. To the "WHITEBOOK", ADD the following:

4. The payment for completely removing and replacing the existing concrete spandrel of a cross gutter associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the curb ramp. No additional costs shall be incurred when separate Bid items for cross gutters has been provided.
5. The payment for completely removing and replacing the existing concrete alley apron associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the Curb Ramp installation. No additional costs shall be incurred when separate Bid items for alley aprons has been provided.

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

ADD:

306-1.1 High-line Phasing.

1. Build the Project in accordance with the water high-lining phasing shown on the Plans and in phases as follows:
 - a) Phase I: Sheet 41261-20-D to 41261-21-D
 - b) Phase II: Sheets 41261-5-D to Sheet 41261-6-D, STA 12+60
 - d) Phase III: Sheets 41261-3-D to Sheets 41261-4-D; Sheets 41261-6-D STA 12+60 to Sheet 41261-7-D
 - e) Phase IV: Sheets 41261-8-D to Sheet 41261-9-D STA 8+20; Sheets 41261-10-D to Sheet 41261-12-D
 - f) Phase V: Sheet 41261-13-D to 41261-14-D
 - g) Phase VI: Sheets 41261-17-D to Sheet 41261-18-D
 - h) Phase VII: Sheets 41261-19-D
 - c) Phase VIII: Sheets 41261-15-D to Sheet 41261-16-D

ADD:

306-1.2 Phased Paving.

1. You shall implement phased paving, when directed and approved by the Engineer.
2. The Engineer will notify you when you can proceed with phased paving Work. Each phase shall be completed within **90 Calendar Days** after the Engineer's notification. Plan and schedule your Work accordingly to ensure each phase is complete.
3. When Phased Paving is initiated, the following Work shall be completed within the determined areas:
 - a) Installation of mains and appurtenances.
 - b) Operational checks and testing.

- c) Mains are in service.
 - d) Trench restoration.
 - e) Road surface preparatory Work.
 - f) Installation of concrete sidewalks and curb ramps.
 - g) Adjustments of gate valves and manholes, survey monuments and utility boxes.
4. You may propose to change the limits of the determined phasing, in writing, for the Engineer's review and approval. If approved, there shall be no additional costs to the City. No additional Working Days will be granted for delays due to the City's review and approval of your proposed change and due to the implementation of that proposed change.
 5. You may use multiple crews to complete each phase of paving.

ADD:

306-1.2.1 Payment.

1. The payment for all Work associated with Phased Paving shall be included in the Bid item for each "Phased Paving" area. This payment shall include the costs for all mobilization and demobilization for resurfacing and striping associated with each paving phase regardless of the paving operation. No additional payment shall be made regardless of the number of mobilizations and demobilizations required to complete that phase.

306-7.8.2.1 General. To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. Pressure testing of pipe and fittings at the lowest elevation shall be performed at 150% of the specified test pressure and no less than 100% of the specified test pressure at the highest elevation.
 - a) Specified test pressure for Class 235 pipe shall be 150 psi and is tested at 225 psi.
 - b) Specified test pressure for Class 305 pipe shall be 200 psi and is tested at 300 psi.

ADD:

306-8.5.4 High Deflection Coupling.

1. High deflection couplings shall be constructed in accordance with the Plans and Reference Specifications. Working Drawings prepared by a Civil or Structural Engineer registered in the State of California shall be submitted in accordance with 3-8.2, "Working Drawings" for any proposed additional high deflection couplings not indicated on the Plans and Reference Specifications.

306-8.8.3 Thrust Blocks and Anchor Blocks. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Thrust blocks shall be installed at all bends, tees, dead-ends and reducers. The use of restrained joints requires approval from the Engineer. The thrust blocks shall be constructed as follows:
 - a) Thrust blocks shall be constructed of concrete conforming to 201-1, "PORTLAND CEMENT CONCRETE".

- b) Unless otherwise shown on the Plans, concrete thrust blocks shall be constructed in accordance with SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION and the Standard Drawings.
- c) Concrete blocks shall be constructed between undisturbed ground and fittings to be anchored.
- d) Unless otherwise shown on the Plans, the quantity of concrete and the bearing area of the pipe against undisturbed soil shall be as shown on the Standard Drawings.
- e) Unless otherwise shown on the Plans, concrete shall be placed so pipe joints and fittings remain accessible to repairs.

306-8.9.2.3 Allowable Leakage. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. For prefabricated pressure pipe testing requirements, refer to prefabricated gravity pipe pressure testing requirements in 306-7.8.2, "Pressure Testing and Leakage Inspection".

306-15.6 Hydrants. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. The payment for fire hydrant assembly and marker, fire service connection, assembly and backflow preventer, and fire service connection and assembly, shall be included in the Bid items for the following:
 - a) Fire Hydrant Assembly and Marker
 - b) Fire Service Connection, Assembly, and Backflow Preventer for City Property
 - c) Fire Service Connection and Assembly
- 2. Removal of existing fire hydrants within the trench limits and all appurtenant Work shall be included in the Bid item for "Fire Hydrant Assembly and Marker".
- 3. Removal of existing fire hydrants outside of the trench limits and all appurtenant Work shall be included in the Bid item for "Removal or Abandonment of Existing Water Facilities" in accordance with 306-3.3.4, "Payment".
- 4. Payment for fire hydrant discs shall be included in the Bid item for "Fire Hydrant Assembly and Marker"

306-15.8 Pipeline Appurtenances. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. Payment for water meter boxes and meter box lids shall be included in the Bid item for "Water Services" unless a Bid item for each "Meter Box" has been provided. Payment shall include any additional adjustment to place the box around the meter to ensure the valve is accessible and operating properly (including adjusting the water service pipe beyond the meter box).

306-17.2 **Payment.** To the “WHITEBOOK”, item 3, DELETE in its entirety and SUBSTITUTE with the following:

6. The payment for “Sewer Lateral with Private Replumbing” and “Sewer Lateral with Private Replumbing for Existing Common Lateral” shall include the installation of new pipes connecting to each existing property, plumbing to the new sewer main, installation of clean outs, and locating, capping, or plugging the existing sewer piping. It shall include removal and reinstallation of fences, irrigation, landscaping, ground cover, excavation, backfill and compaction, fittings, and permits necessary to install the new sewer lateral system, in place, and to restore private improvements to pre-Bid condition. Potholing performed for the replumbs shall be included in the unit Bid price for the replumbing Work.

306-18.5 **Video Inspection Submittals.** To the “WHITEBOOK”, item 1, subsection “h”, DELETE in its entirety and SUBSTITUTE with the following:

- h) **Post-rehabilitation Videos** - Post-rehabilitation videos shall be submitted within 30 Calendar Days of the completion of the Work in phases not to exceed 2 mile increments. The final video recording shall clearly show the condition of the liner with ends sealed at the manholes, service laterals, and connection seals. The submittal of this final video recording shall also include MS Access database and marked up Field Book pages or Plans as attachments.

306-18.7 **Payment.** To the “WHITEBOOK”, ADD following:

5. The payment for post-rehabilitation videos shall be included in the associated Bid items provided, regardless of the number of phased videos required at 2 mile increments.

SECTION 314 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT MARKERS

314-4.4.5 **Measurement.** To the “WHITEBOOK”, item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Thermoplastic traffic striping for continental crosswalks shall be measured by the square foot for the actual area covered with thermoplastic.

SECTION 402 – UTILITIES

402-2 **PROTECTION.** To the “WHITEBOOK”, item 2, ADD the following:

- g) Refer to **Appendix O - Advanced Metering Infrastructure (AMI) Device Protection** for more information on the protection of AMI devices.

402-6 **COOPERATION.** To the “GREENBOOK”, ADD the following:

1. Notify SDG&E at least **5** Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

402-7.2 **Pipe Separations.** To the “WHITEBOOK”, item 1, subsection “a”, DELETE in its entirety and SUBSTITUTE with the following:

- a) You shall notify the Engineer immediately if:
 - i. 1 foot (0.3 m) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.

- ii. 10 feet (3.0 m) horizontal separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.
- iii. 6 inches (152.4 mm) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between utilities other than sewer and water mains cannot be maintained.
- iv. 3 feet (0.9 m) or more of cover over the top of the water main cannot be maintained.
- v. 5 feet (1.5 m) or more of cover over the top of the recycled water main cannot be maintained.

402-8 PAYMENT. To the “WHITEBOOK”, item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. With the Resident Engineer’s approval, compensation for each existing utility pothole that is not shown on the Plans but marked out by USA shall be included in the Bid item for “Potholing Existing Utilities Not Shown on Plans (Depth up to 7 feet)”. Potholing for existing utilities that have been shown on the Plans shall be included in the Contract Price.

SECTION 500 – PIPELINE REHABILITATION

500-2.1 Initial Submittals. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

- 1. You shall submit the following required information **at the time of Bid Opening**:
 - a) Contractor’s Experience and Past Project Documentation.
 - i. You shall submit documentation that you have performed similar main rehabilitation projects (of scope and size) successfully within the last 10 years in the United States. The scope shall include the same product, installation, and curing. The proposed product shall have at least 5 years or more of documented performance records.
 - ii. Your superintendent shall be assigned full time to this project and shall be present at the Site while Work is being performed. If CIPP is used, the superintendent shall have documentation conveying experience with the proposed resin and felt combination used and the installation of the proposed lateral sealing system with the pipe lining system.
 - b) Authorized Installer.
 - i. The installation of the lining system shall be performed by a contractor authorized, certified, or both by the manufacturer or owner of the process.
 - ii. You shall submit a copy of the authorizations, certifications, or both from all manufacturers listed on the City’s Approved Material List (AML) that will be used for the Work that includes

the name, address, point of contact, and telephone number of the manufacturer.

SECTION 600 - ACCESS

600-1 GENERAL. To the “WHITEBOOK”, item 5, DELETE in its entirety and SUBSTITUTE with the following:

5. You shall notify Environmental Services Department via email (trash@sandiego.gov) of street closures affecting the regular scheduled solid waste collection at least 3 Working Days prior to the street closure. Include your business name and phone number, days of closure, time of scheduled closure, and date of anticipated street reopening in the notification.
 - a) You shall verify waste collection schedules via the Environmental Services website at:
<http://www.sandiego.gov/environmental-services/collection/index.shtml>
 - b) You shall comply with the following requirements for trash, recycling, and yard waste collection:
 - i. Provide advance written notice to every property affected by blocked public right of way.
 - ii. Coordinate the relocation of trash, recycling, and yard waste containers to an accessible public street for the City’s waste collection crews on collection day.
 - iii. When necessary, relocate the containers from the blocked streets to the accessible public right of way before the City’s collection vehicles arrive to assist with collection on existing schedules. Return the containers to their point of origin to ensure the accuracy of inventory assignment by address.
 - c) If the City’s crews are unable to provide the citizens with the mandated services due to your failure to comply with these specifications, you shall collect trash, recyclables, and yard waste on the City’s schedule and deliver to the City’s designated locations. If you fail to perform this Work, you shall incur additional costs for the City to reschedule pick up of an area.

SECTION 601 - TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES

601-2.1.4 Traffic Control for Resurfacing and Slurry Sealing. To the “WHITEBOOK”, item 3, subsection “d”, DELETE in its entirety and SUBSTITUTE with the following:

- d) Place “NO PARKING - TOW-AWAY ZONE” signs 72 hours in advance of the scheduled slurry sealing. Reschedule street block segments which are not completed by the last posted Working Day. If a Work delay of 48 hours or more occurs from the originally scheduled Work date, remove the “NO PARKING - TOW-AWAY ZONE” signs for a minimum of 24 hours, then reset and re-post for the appropriate Work date.

601-3.5.1 General. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. Temporary "No Parking" and "No Stopping" signs shall be installed 72 hours before enforcement. Temporary "No Parking" and "No Stopping" signs shall be installed and removed as specified in the Special Provisions. Signs shall indicate specific days, dates, and times of restrictions. If violations occur, call Police Dispatch 619-531-2000 to enforce the Tow-Away notice.

601-3.6 Channelizing Devices. To the "WHITEBOOK", item 4, Barricades, ADD the following:

- h) You shall place "OPEN TRENCH" signs (C27(CA)) on Type 3 Barricade within the construction Work zone, ahead of any Work areas with open trenches that are greater than 3 inches in depth, in accordance with California MUTCD SECTION 6F.103 (CA). The barricades shall be placed in a continuous manner and shall prevent pedestrian, vehicular, and biker access to the open trench area.

700-5.1 Vehicle Detectors. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Loop wire shall be Type 2. Loop detector lead-in cable shall be Type "B". Slots shall be filled with elastomeric sealant, epoxy sealant, or hot-melt rubberized asphalt sealant, except asphaltic emulsion loop sealant and cold tar loop sealant are acceptable if the pavement surface will receive an asphaltic concrete overlay.

SECTION 900 – MATERIALS

900-2.3 Payment. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. The payment for furnishing materials for your connection, cut and plug, and cut-in Work shall cover all necessary materials (fittings and hardware, excluding valves and pipes), delivery, and unloading. The payment shall be included within the Bid item of the Work involved and no separate payment for furnishing those materials shall be made. The payment for furnishing valve and pipe materials for your connection, cut and plug, and cut-in Work shall be included in the separate Bid items for each valve and pipe.

SECTION 901 – INSTALLATION AND CONNECTION

901-1.1 General. To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. The Engineer will coordinate all interactions between you and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations. Upon your request, the Engineer shall notify the City's Public Utilities Department's staff as noted below which shall be required at least 20 Working Days prior to the beginning of Work that involves shutting down pipelines, high-lining, cutting and plugging of, or making connection to the existing water mains. Unless otherwise specified on the Plans, contact the below:
 - a) Transmission Mains (16 inches and larger) – Jesus Ramos (619-527-7438)
 - b) Distribution Mains (less than 16 inches) – (619-527-7539)

- c) Water Facilities – Tatyana Fikhman (619-527-7465)

901-1.1.2.2 Start-up Procedures. To the “WHITEBOOK”, item 2, subsection “j”, DELETE in its entirety and SUBSTITUTE with the following:

- j) In the event that the high-line piping system fails to pass the required bacteriological testing, you will be expected to help investigate and perform corrective actions if warranted by the findings and you shall re-flush and re-disinfect the lines for re-testing at no additional cost to the City. Disposal of chlorinated water for retesting shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water shall not be permitted.

901-2.2.1 General. To the “WHITEBOOK”, item 5, DELETE in its entirety and SUBSTITUTE with the following:

- 5. The Engineer will coordinate all interactions between you and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations. Upon your request, the Engineer shall notify the City's Public Utilities Department as noted below which shall be required at least 20 Working Days prior to the beginning of Work that involves shutting down pipelines, high-lining, cutting and plugging of, or making connection to the existing water mains. Unless otherwise specified on the Plans, contact the below:
 - a) Transmission Mains (16 inches and larger) – Jesus Ramos (619-527-7438)
 - b) Distribution Mains (less than 16 inches) – (619-527-7539)
 - c) Water Facilities – Tatyana Fikhman (619-527-7465) and Jesus Ramos (619-527-7438)

901-2.2.4 Preparation for Connection. To the “WHITEBOOK”, item 7 and 8, DELETE in its entirety and SUBSTITUTE with the following:

- 7. Upon receiving notification of a shutdown date by City Water Operations Division for your planned connection, you shall trench and steel plate the pit(s) necessary to make the connection(s) prior to the start of the scheduled shutdown to facilitate an expedient connection to the existing main. Shutdown of the water main and connection shall be completed within the timeline agreed upon and as specified by City Water Operations staff so that water is restored in accordance with the shutdown notification and as needed for operation of the water system.
- 8. If you anticipate connection operations exceed the time as identified in the notification, causes health and safety risks, or disrupts water services to the consumers, you shall notify the Engineer and the City's Station 38 at (619) 527-7500 as soon as possible for assistance to provide potable water and temporary high-lines to restore water to the affected consumers.

To the “WHITEBOOK”, ADD the following:

- 12. After the connection operation (for mains or services), you shall request the Engineer notify City Water Laboratory take water samples for bacteriological tests in accordance with Section 7 of the AWWA C651. If the test does not pass,

you will be expected to help investigate and perform corrective actions if warranted by the findings.

13. Bacteriological Testing (Bac-T) sample results are valid only for 14 Calendar Days from the date the results are first made available. If any system is not placed into service within the 14 Calendar Days, then bacteriological testing shall be reinitiated.

901-2.3.4.1 Quality Control. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. After the cut and plug operation, the water main and its appurtenances shall be disinfected and field tested by you in accordance with the latest edition of AWWA C651. You shall also request the Engineer to notify the City Water Laboratory to take water samples for bacteriological tests in accordance with Section 7 of the AWWA C651. If the test does not pass, you will be expected to help investigate and perform corrective actions if warranted by the findings.

901-2.5 Payment. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your Work for connecting to the existing system (cut-in or tie-in Work), excluding new main interconnections between various phases, shall be paid under the Bid items for the connection (cut-in or tie-in Work) and shall include the following:
 - a) Trenching, furnishing, and installing all materials and labor to complete the Work, including up to 10 feet of new water pipe
 - b) Potholing
 - c) Protecting the water main while performing the Work
 - d) Coordinating your Work with the City Forces
 - e) Coordinating with the community (community outreach)
 - f) Traffic control and construction BMPs
 - g) Pavement Restoration
 2. Cut and plug Work of the existing system by you shall be paid under the Bid item for "Cut and Plug by the Contractor" and shall include coordination of Work with City Forces, any scheduling impact costs, community outreach, furnishing and installing of materials, and traffic control. Potholing and protecting the water main while performing the Work shall be included in this payment.
 3. Traffic control, saw cutting the trench area, trench caps, and other spot repairs in the vicinity of the disturbed area at each restored connection shall be included in the square foot Bid item for "Pavement Restoration for Final Connection". Asphalt overlay and slurry seal Work shall be paid for under separate Bid items.
 4. Interconnections between various phases of newly installed watermains shall be included in the associated pipeline bid items.
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SUPPLEMENTARY SPECIAL PROVISIONS
APPENDICES

APPENDIX A
**ADDENDUM TO MITIGATED NEGATIVE DECLARATION, NOTICE OF DETERMINATION,
AND ERRATA**



THE CITY OF SAN DIEGO

ADDENDUM TO MITIGATED NEGATIVE DECLARATION

Project No. 658730
Addendum to MND No. 255100
SCH No. 2011091045

SUBJECT: AC Water & Sewer Group 1036. The proposed project would include replacement of a total of 10,705 linear feet (LF) of water mains and 2,721 LF of sewer mains. Approximately 10,288 LF of existing 6-, 8- and 12-inch Asbestos Cement (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately 1,232 LF of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately 409 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately 647 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

I. PROJECT DESCRIPTION

Applicant: City of San Diego Public Engineering and Capital Projects Department

Project Location: Tierrasanta Boulevard, Colina Dorada Drive, Calle De Vida, Papagallo Court, and Buho Court

Project Description: The AC Water and Sewer Group 1036 project will install and rehabilitate approximately 18,074 LF (3.42miles) of which 17,044 LF (3.23 miles) will be 8-inch and 12-inch water mains diameter polyvinyl chloride (PVC) water mains to realign and replace existing asbestos cement water mains via open trench construction methods. Excavation depths for new water mains will vary from 4 feet to 9 feet.

The AC *Water and Sewer Group 1036* is located within the Pacific Beach, Mission Bay Park and College Area Communities Planning area (Council District 2, 9). The project is generally bounded by Missouri Street to the north, Pacific Beach Drive to the south, Lamont Street to the east, and Pendleton Street to the west. Additional segments were added to the project on 59th El Cajon Blvd, El Cajon Blvd form

Alice Street to Esther Street and Madison Street from Alice Street to Esther Street. The project would affect the following streets: Missouri Street, Diamond Street, Emerald Street, Felspar Street, Garnet Avenue, Hornblend Street, Thomas Avenue, Noyes Street, Olney Street, El Cajon Blvd, Madison Ave, 59th Street (see attached project maps).

The project is entirely within the Public Right of Way and one section of the project is (Water & Sewer at southern end of Olney St) located within the MHPA.

The proposed scope of work would include replacement of a total of 10,288 linear feet (LF) of water mains and 2,379 LF of sewer mains. Approximately 10,288 LF of existing 6-, 8- and 12-inch Asbestos Concrete (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately 1,232 LF of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately 409 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately 647 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

The project would also include the abandonment of 180 LF of existing sewer mains under existing sidewalk, 570 LF of existing sewer main within private property, and 208 LF of existing 4-inch Wrought Iron water main within Right of Way. The existing manhole lids will be removed from the street, sidewalk and parking areas and slurry filled.

The project would also include the following improvements: installation of curb ramps, laterals, cleanouts, water meters, water boxes, slurry seal, and street resurfacing.

More specific descriptions of construction methods are as follow:

Open Trenching: The open trench method of construction will be used for complete replacement portions of the Project. Trenches are typically 3-4 feet wide and are dug with excavators and similar large construction equipment. All trenching work would occur within the public right-of-way.

Abandonment: Pipeline abandonment activities will have minimum surface/subsurface disturbance at both ends of the mains. Disturbance would be limited to removal of manholes and exposed pipe sections. All abandonment would occur within the canyon area and several private residential properties.

Potholing: Potholing will be used to verify utility crossings. These 'potholes' are made by using vacuum type equipment to open up small holes into the street or pavement.

The AC Water and Sewer Group 1036 project is part of the City of San Diego's on-going Sewer Main and Water Main Replacement Program. The existing sewer and water mains are old and are nearing the end of their service life. Construction of the project will reduce maintenance requirements, correct hydraulic deficiencies, improve reliability and accessibility, and bring the sewer and water main systems up to current design standards.

The project would comply with the requirements described in the *Standard Specifications for Public Works Construction*, and California Department of Transportation's *Manual of Traffic Controls for Construction and Maintenance Work Zones*. A traffic controls plan would be prepared and implemented in accordance with the *City of San Diego Standard Drawings Manual of Traffic Control for Construction and Maintenance Work Zones*. Best Management Practices will be required and specified within the approved Water Pollution Control Plan for erosion control and storm drain inlet protection.

II. ENVIRONMENTAL SETTING

The AC Water and Sewer Group 1036 project would occur within the developed public right-of-way and public utility easements of previously disturbed private property within the City of San Diego described above under Project Location. Surrounding land uses include existing residential, institutional, industrial and commercial developments. Some portions of the alignment are within the City's Multi-Habitat Planning Area (MHPA). See attached MND for the environmental setting for the overall Citywide Pipeline Projects.

III. SUMMARY OF ORIGINAL PROJECT

A Citywide Pipelines Projects Mitigated Negative Declaration (MND) No. 255100 was prepared by the City of San Diego's Development Services Department (DSD) and was certified by the City Council on November 30, 2011 (Resolution No. 307122). The Citywide Pipelines Projects MND provides for the inclusion of subsequent pipeline projects that are located within the public right-of-way and would not result in any direct impacts to sensitive biological resources. Pursuant to the City of San Diego's Municipal Code Section 128.0306 and Section 15164(c) of State CEQA Guidelines addenda to environmental documents are not required to be circulated for public review.

IV. ENVIRONMENTAL DETERMINATION

The City previously prepared and adopted the Citywide Pipelines Projects Mitigated Negative Declaration (MND No. 255100/SCH No. 2011091045). Based on all available information in light of the entire record, the analysis in this Addendum, and pursuant to Section 15162 of the State CEQA Guidelines, the City has determined the following:

- There are no substantial changes proposed in the project which will require major revisions of the previous environmental document due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- Substantial changes have not occurred with respect to the circumstances under

which the project is undertaken which will require major revisions of the previous environmental document due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

- There is no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous environmental document was certified as complete or was adopted, shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous environmental document;
 - b. Significant effects previously examined will be substantially more severe than shown in the previous environmental document;
 - c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
 - d. Mitigation measures or alternatives which are considerably different from those analyzed in the previous environmental would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Based upon a review of the current project, none of the situations described in Sections 15162 and 15164 of the State CEQA Guidelines apply. No changes in circumstances have occurred, and no new information of substantial importance has manifested, which would result in new significant or substantially increased adverse impacts as a result of the project. Therefore, this Addendum has been prepared in accordance with Section 15164 of the CEQA State Guidelines. Public review of this Addendum is not required per CEQA.

V. IMPACT ANALYSIS

The subsequent impact analysis is to demonstrate that environmental impacts associated with the project are consistent with the previously certified MND. The following includes the project-specific environmental review pursuant to the CEQA. The analysis in this document evaluates the adequacy of the MND relative to the project.

Archaeological Resources

The Citywide Pipelines Project MND No. 255100 concluded that pipeline projects located within the public right-of-way and city easements could result in significant environmental impacts relating to archaeological resources, which included mitigation to reduce impacts to archaeological resources to below a level of significance. Portions of the project area identified with the AC Water and Sewer

Group 1036 project would include excavation of previously undisturbed soil which has the potential to contain sensitive archaeological resources.

To reduce potential archaeological resource impacts to below a level of significance, all excavation within previously undisturbed soil would be monitored by a qualified archaeologist or archaeological monitor and Native American monitor. Any significant archaeological resources encountered would be recovered and curated in accordance with the mitigation monitoring and Reporting Program (MMRP) detailed in Section V.

Biological Resources

One section of the project is located within the MHPA (Water and Sewer at southern end of Olney St). All proposed improvements will occur within the City's public right-of-way and will not encroach into environmentally sensitive lands.

The Citywide Pipelines Project MND No. 255100 concluded that pipeline projects located within the public right-of-way and city easements would not result in significant environmental impacts relating to sensitive biological resources. Projects located within the MHPA would be required to incorporate MHPA land use adjacency measures to reduce any indirect impacts. As such, indirect impacts would be mitigated to below a level of significance. The Land Use Adjacency Guidelines are included with the Mitigation Monitoring and Reporting Program (MMRP) detailed in Section V.

Based on the foregoing analysis and information, there is no evidence that the project would require a major change to the Mitigated Negative Declaration. The project would not result in any new significant impact, nor would a substantial increase in the severity of impacts from that described in the Mitigated Negative Declaration result.

VI. MITIGATION, MONITORING, AND REPORTING PROGRAM (MMRP) INCORPORATED INTO THE PROJECT

Cultural Resources (Archaeology)

I. Prior to Permit Issuance or Bid Opening/Bid Award

A. Entitlements Plan Check

1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Archaeological Monitoring and Native American monitoring have been noted on the applicable construction documents through the plan check process.

B. Letters of Qualification have been submitted to ADD

1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the archaeological monitoring program, as defined in the City of San Diego Historical Resources Guidelines (HRG). If applicable, individuals involved in the archaeological monitoring program must have completed the 40-hour HAZWOPER training with certification documentation.

2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the archaeological monitoring of the project meet the qualifications established in the HRG.
3. Prior to the start of work, the applicant must obtain written approval from MMC for any personnel changes associated with the monitoring program.

II. Prior to Start of Construction

A. Verification of Records Search

1. The PI shall provide verification to MMC that a site specific records search (1/4 mile radius) has been completed. Verification includes, but is not limited to a copy of a confirmation letter from South Coastal Information Center, or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.
3. The PI may submit a detailed letter to MMC requesting a reduction to the ¼ mile radius.

B. PI Shall Attend Precon Meetings

1. Prior to beginning any work that requires monitoring; the Applicant shall arrange a Precon Meeting that shall include the PI, Native American consultant/monitor (where Native American resources may be impacted), Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist and Native American Monitor shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Archaeological Monitoring program with the Construction Manager and/or Grading Contractor.
 - a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.

2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects)
The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the archaeological monitoring program.

3. Identify Areas to be Monitored

- a. Prior to the start of any work that requires monitoring, the PI shall submit an Archaeological Monitoring Exhibit (AME) (with verification that the AME has been reviewed and approved by the Native American consultant/monitor when Native American resources may be impacted) based on the appropriate construction documents (reduced to 11x17) to MMC identifying the areas to be monitored including the delineation of grading/excavation limits.
- b. The AME shall be based on the results of a site specific records search as well as information regarding the age of existing pipelines, laterals and associated appurtenances and/or any known soil conditions (native or formation).
- c. MMC shall notify the PI that the AME has been approved.

4. When Monitoring Will Occur

- a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.

- b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as age of existing pipe to be replaced, depth of excavation and/or site graded to bedrock, etc., which may reduce or increase the potential for resources to be present.
5. Approval of AME and Construction Schedule
After approval of the AME by MMC, the PI shall submit to MMC written authorization of the AME and Construction Schedule from the CM.

III. During Construction

- A. Monitor Shall be Present During Grading/Excavation/Trenching
 1. The Archaeological Monitor shall be present full-time during all soil disturbing and grading/excavation/trenching activities which could result in impacts to archaeological resources as identified on the AME. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the AME.**
 2. The Native American consultant/monitor shall determine the extent of their presence during soil disturbing and grading/excavation/trenching activities based on the AME and provide that information to the PI and MMC. If prehistoric resources are encountered during the Native American consultant/monitor's absence, work shall stop and the Discovery Notification Process detailed in Section III.B-C and IV.A-D shall commence.
 3. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as modern disturbance post-dating the previous grading/trenching activities, presence of fossil formations, or when native soils are encountered that may reduce or increase the potential for resources to be present.
 4. The archaeological and Native American consultant/monitor shall document field activity via the Consultant Site Visit Record (CSVR). The CSVR's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**), and in the case of ANY discoveries. The RE shall forward copies to MMC.
- B. Discovery Notification Process
 1. In the event of a discovery, the Archaeological Monitor shall direct the contractor to temporarily divert all soil disturbing activities, including but not limited to digging, trenching, excavating or grading activities in the area of discovery and in the area reasonably suspected to overlay adjacent resources and immediately notify the RE or BI, as appropriate.
 2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
 3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.

4. No soil shall be exported off-site until a determination can be made regarding the significance of the resource specifically if Native American resources are encountered.
- C. Determination of Significance
1. The PI and Native American consultant/monitor, where Native American resources are discovered shall evaluate the significance of the resource. If Human Remains are involved, follow protocol in Section IV below.
 - a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required.
 - b. If the resource is significant, the PI shall submit an Archaeological Data Recovery Program (ADRP) and obtain written approval of the program from MMC, CM and RE. ADRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume.

Note: If a unique archaeological site is also an historical resource as defined in CEQA Section 15064.5, then the limits on the amount(s) that a project applicant may be required to pay to cover mitigation costs as indicated in CEQA Section 21083.2 shall not apply.

 - (1). Note: For pipeline trenching and other linear projects in the public Right-of-Way, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
 - c. If the resource is not significant, the PI shall submit a letter to MMC indicating that artifacts will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that that no further work is required.
 - (1). Note: For Pipeline Trenching and other linear projects in the public Right-of-Way, if the deposit is limited in size, both in length and depth; the information value is limited and is not associated with any other resource; and there are no unique features/artifacts associated with the deposit, the discovery should be considered not significant.
 - (2). Note, for Pipeline Trenching and other linear projects in the public Right-of-Way, if significance can not be determined, the Final Monitoring Report and Site Record (DPR Form 523A/B) shall identify the discovery as Potentially Significant.
- D. Discovery Process for Significant Resources - Pipeline Trenching and other Linear Projects in the Public Right-of-Way
- The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities or for other linear project types within the Public Right-of-Way including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance:
1. Procedures for documentation, curation and reporting
 - a. One hundred percent of the artifacts within the trench alignment and width shall be documented in-situ, to include photographic records, plan view of the trench and profiles of side walls, recovered, photographed after cleaning and analyzed and curated. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact.
 - b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.

- c. The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) the resource(s) encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines. The DPR forms shall be submitted to the South Coastal Information Center for either a Primary Record or SDI Number and included in the Final Monitoring Report.
- d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

IV. Discovery of Human Remains

If human remains are discovered, work shall halt in that area and no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken:

- A. Notification
 - 1. Archaeological Monitor shall notify the RE or BI as appropriate, MMC, and the PI, if the Monitor is not qualified as a PI. MMC will notify the appropriate Senior Planner in the Environmental Analysis Section (EAS) of the Development Services Department to assist with the discovery notification process.
 - 2. The PI shall notify the Medical Examiner after consultation with the RE, either in person or via telephone.
- B. Isolate discovery site
 - 1. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the PI concerning the provenience of the remains.
 - 2. The Medical Examiner, in consultation with the PI, will determine the need for a field examination to determine the provenience.
 - 3. If a field examination is not warranted, the Medical Examiner will determine with input from the PI, if the remains are or are most likely to be of Native American origin.
- C. If Human Remains **ARE** determined to be Native American
 - 1. The Medical Examiner will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, **ONLY** the Medical Examiner can make this call.
 - 2. NAHC will immediately identify the person or persons determined to be the Most Likely Descendent (MLD) and provide contact information.
 - 3. The MLD will contact the PI within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes.
 - 4. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods.
 - 5. Disposition of Native American Human Remains will be determined between the MLD and the PI, and, if:
 - a. The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 48 hours after being notified by the Commission, OR;

- b. The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner, THEN
 - c. To protect these sites, the landowner shall do one or more of the following:
 - (1) Record the site with the NAHC;
 - (2) Record an open space or conservation easement; or
 - (3) Record a document with the County.
 - d. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above.
- D. If Human Remains are **NOT** Native American
- 1. The PI shall contact the Medical Examiner and notify them of the historic era context of the burial.
 - 2. The Medical Examiner will determine the appropriate course of action with the PI and City staff (PRC 5097.98).
 - 3. If the remains are of historic origin, they shall be appropriately removed and conveyed to the San Diego Museum of Man for analysis. The decision for internment of the human remains shall be made in consultation with MMC, EAS, the applicant/landowner, any known descendant group, and the San Diego Museum of Man.

V. Night and/or Weekend Work

- A. If night and/or weekend work is included in the contract
- 1. When night and/or weekend work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
 - 2. The following procedures shall be followed.
 - a. No Discoveries
In the event that no discoveries were encountered during night and/or weekend work, the PI shall record the information on the CSVR and submit to MMC via fax by 8AM of the next business day.
 - b. Discoveries
All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction, and IV - Discovery of Human Remains. Discovery of human remains shall always be treated as a significant discovery.
 - c. Potentially Significant Discoveries
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction and IV-Discovery of Human Remains shall be followed.
 - d. The PI shall immediately contact the RE and MMC, or by 8AM of the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.

- B. If night and/or weekend work becomes necessary during the course of construction
 - 1. The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
 - 2. The RE, or BI, as appropriate, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

VI. Post Construction

- A. Submittal of Draft Monitoring Report
 - 1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Historical Resources Guidelines (Appendix C/D) which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring. **It should be noted that if the PI is unable to submit the Draft Monitoring Report within the allotted 90-day timeframe as a result of delays with analysis, special study results or other complex issues, a schedule shall be submitted to MMC establishing agreed due dates and the provision for submittal of monthly status reports until this measure can be met.**
 - a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
 - b. Recording Sites with State of California Department of Parks and Recreation
The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines, and submittal of such forms to the South Coastal Information Center with the Final Monitoring Report.
 - 2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
 - 3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
 - 4. MMC shall provide written verification to the PI of the approved report.
 - 5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.
- B. Handling of Artifacts
 - 1. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued
 - 2. The PI shall be responsible for ensuring that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.
- C. Curation of artifacts: Accession Agreement and Acceptance Verification
 - 1. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with MMC and the Native American representative, as applicable.
 - 2. When applicable to the situation, the PI shall include written verification from the Native American consultant/monitor indicating that Native American resources were

- treated in accordance with state law and/or applicable agreements. If the resources were reinterred, verification shall be provided to show what protective measures were taken to ensure no further disturbance occurs in accordance with Section IV – Discovery of Human Remains, Subsection C.
3. The PI shall submit the Accession Agreement and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
 4. The RE or BI, as appropriate shall obtain signature on the Accession Agreement and shall return to PI with copy submitted to MMC.
 5. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.
- D. Final Monitoring Report(s)
1. The PI shall submit one copy of the approved Final Monitoring Report to the RE or BI as appropriate, and one copy to MMC (even if negative), within 90 days after notification from MMC of the approved report.
 2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

Land Use Adjacency

Prior to issuance of any construction permit or notice to proceed, DSD/ LDR, and/or MSCP staff shall verify the Applicant has accurately represented the project's design in or on the Construction Documents (CD's/CD's consist of Construction Plan Sets for Private Projects and Contract Specifications for Public Projects) are in conformance with the associated discretionary permit conditions and Exhibit "A", and also the City's Multi-Species Conservation Program (MSCP) Multi-Habitat Planning Area (MHPA) Land Use Adjacency Guidelines. The applicant shall provide an implementing plan and include references on/in CD's of the following:

- A. Grading/Land Development/MHPA Boundaries - MHPA boundaries on-site and adjacent properties shall be delineated on the CDs. DSD Planning and/or MSCP staff shall ensure that all grading is included within the development footprint, specifically manufactured slopes, disturbance, and development within or adjacent to the MHPA. For projects within or adjacent to the MHPA, all manufactured slopes associated with site development shall be included within the development footprint.
- B. Toxics/Project Staging Areas/Equipment Storage - Projects that use chemicals or generate by-products such as pesticides, herbicides, and animal waste, and other substances that are potentially toxic or impactful to native habitats/flora/fauna (including water) shall incorporate measures to reduce impacts caused by the application and/or drainage of such materials into the MHPA. No trash, oil, parking, or other construction/development-related material/activities shall be allowed outside any approved construction limits. Where applicable, this requirement shall be incorporated into leases on publicly-owned property when applications for renewal occur. Provide a note in/on the CD's that states: "All construction related activity that may have potential for leakage or intrusion shall be monitored by the Qualified Biologist/Owners Representative or Resident Engineer to ensure there is no impact to the MHPA."

C. Lighting - Lighting within or adjacent to the MHPA shall be directed away/shielded from the MHPA and be subject to City Outdoor Lighting Regulations per LDC Section 142.0740.

D. Barriers - New development within or adjacent to the MHPA shall be required to provide barriers (e.g., non-invasive vegetation; rocks/boulders; 6-foot high, vinyl-coated chain link or equivalent fences/walls; and/or signage) along the MHPA boundaries to direct public access to appropriate locations, reduce domestic animal predation, protect wildlife in the preserve, and provide adequate noise reduction where needed.

E. Noise - Due to the site's location adjacent to or within the MHPA where the Qualified Biologist has identified potential nesting habitat for listed avian species, construction noise that exceeds the maximum levels allowed shall be avoided during the breeding seasons for the following: California Gnatcatcher(3/1-8/15); Least Bell's vireo (3/15-9/15); and Southwestern Willow Flycatcher (5/1-8/30) (select only the species that apply). If construction is proposed during the breeding season for the species, U.S. Fish and Wildlife Service protocol surveys shall be required in order to determine species presence/absence. If protocol surveys are not conducted in suitable habitat during the breeding season for the aforementioned listed species, presence shall be assumed with implementation of noise attenuation and biological monitoring.

The above Mitigation Monitoring and Reporting Program may require additional fees and/or deposits to be collected prior to the issuance of building permits, certificates or occupancy and/or final maps to ensure the successful completion of the monitoring program.

VII. IMPACT SIGNIFICANCE

The MND identified that all impacts would be mitigated to below a level of significance through mitigation. This Addendum also identifies that all significant project impacts would be mitigated to below a level of significance, consistent with the previously certified MND.

VIII. CERTIFICATION

Copies of the addendum, the adopted MND, the Mitigation Monitoring and Reporting Program, and associated project-specific technical appendices, if any, may be reviewed in the office of the Development Services Department, or purchased for the cost of reproduction.


_____ for _____
Jeff Szymanski, Senior Planner
Development Services Department

11/10/20
Date of Final Report

Analyst: Courtney Holowach

Attachments:
Location Map
Mitigated Negative Declaration No. 255100/SCH No. 2011091045

NOTICE OF DETERMINATION (SUBSEQUENT ACTION)

TO: X Recorder/County Clerk
P.O. Box 1750, MS A33
1600 Pacific Hwy, Room 260
San Diego, CA 92101-2422

FROM: City of San Diego
Development Services Department
1222 First Avenue, MS 501
San Diego, CA 92101

 Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

PROJECT NUMBER: PTS 658730 / B-18123.02.06

STATE CLEARINGHOUSE NUMBER: 2011091045

PROJECT TITLE: SW GJ 1036 PPA

DESCRIPTION OF PREVIOUS ACTION: The City of San Diego previously prepared a Mitigated Negative Declaration for the Citywide Pipelines project (Project No. 255100). The Mitigated Negative Declaration was certified by the City of San Diego City Council on November 30, 2011, Resolution No. 30712.

DESCRIPTION OF SUBSEQUENT ACTION: City of San Diego Development Services Department approval of Addendum to Mitigated Negative Declaration No. 255100 in association with a Public Project Assessment for the M. Beach Water and Sewer.

PROJECT LOCATION: The project is generally bounded by Missouri Street to the north, Pacific Beach Drive to the south, Lamont Street to the east, and Pendleton Street to the west. Additional segments were added to the project on 59th El Cajon Blvd, El Cajon Blvd from Alice Street to Esther Street and Madison Street from Alice Street to Esther Street. The project would affect the following streets: Missouri Street, Diamond Street, Emerald Street, Felspar Street, Garnet Avenue, Hornblend Street, Thomas Avenue, Noyes Street, Olney Street, El Cajon Blvd, Madison Ave, 59th Street (see attached project maps). The project is entirely within the Public Right of Way and one section of the project is (Water & Sewer at southern end of Olney St) located within the MHPA.

PROJECT DESCRIPTION: The AC Water and Sewer Group would include replacement of a total of 10,705 linear feet (LF) of water mains and 2,721 LF of sewer mains. Approximately 10,705 LF of existing 6-, 8- and 12-inch Asbestos Cement (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately 565 LF of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately 1286 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately 779 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

The SW GJ 1036 project is part of the City of San Diego’s on-going Sewer Main and Water Main Replacement Program (Citywide Pipelines Project MND No. 255100).

PROJECT APPLICANT: Ikhlass Shamoun, Project Manager, City of San Diego Public Works Department, Right of Way Division, 525 B Street, Suite 750, San Diego, CA 92101, 619-533-4619

This is to advise that the City of San Diego City of San Diego Development Services Department on June 18, 2019 approved the above described project and made the following determinations:

1. The project in its approved form will, X will not, have a significant effect on the environment.
2. An Environmental Impact Report was prepared for this project and certified pursuant to the provisions of CEQA.
 A (Mitigated) Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
 X An Addendum to Negative Declaration / Mitigated Negative Declaration / Environmental Impact Report No. was prepared for this project pursuant to the provisions of CEQA.

Record of project approval may be examined at the address above.

3. Mitigation measures ___ were, ___ were not, made a condition of the approval of the project; and a mitigation monitoring and reporting program ___ was, ___ was not, adopted for the project.
4. (EIR only) Findings ___ were, ___ were not, made pursuant to CEQA Guidelines Section 15091.
5. (EIR only) A Statement of Overriding Considerations ___ was, ___ was not, adopted for this project.

It is hereby certified that the final environmental report, including comments and responses, is available to the general public at the office of the Development Services Department, 1222 First Avenue, San Diego, CA 92101.

Analyst: Courtney Holowach

Telephone: (619) 446-5187

Filed by: *Courtney Holowach*
Signature

Associate Planner

Title

[Attach Copy of Check, Proof of CDFG Payment, "de Minimis" Certificate, or No Effect Form]

Reference: California Public Resources Code, Sections 21108 and 21152.

Errata

Project No. 658730
Addendum to MND No. 255100
SCH No. 2011091045
December 7, 2020

Minor revisions have been made to the previously posted Addendum Mitigated Negative Declaration (MND) dated November 10, 2020. Added language would appear in a strikeout and underlined format. Minor revisions include a clarification of the description of the project. These corrections do not result in any new physical effects. This revision does not affect project impacts, proposed mitigation measures, and conclusions of the Addendum to the Mitigated Negative Declaration.

Corrections:

SUBJECT: AC Water & Sewer Group 1036. The proposed project would include replacement of a total of 10,705 linear feet (LF) of water mains and 2,721 LF of sewer mains. Approximately ~~40,288~~ 10,705 LF of existing 6-, 8- and 12-inch Asbestos Cement (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately ~~4,232~~ 565 LF of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately ~~409~~ 1,286 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately ~~647~~ 779 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

I. PROJECT DESCRIPTION

Applicant: City of San Diego Public Engineering and Capital Projects Department

Project Location: ~~Tierrasanta Boulevard, Colina Dorada Drive, Calle De Vida, Papagallo Court, and Buho Court.~~ The project is generally bounded by Missouri Street to the north, Pacific Beach Drive to the south, Lamont Street to the east, and Pendleton Street to the west. Additional segments were added to the project on 59th El Cajon Blvd, El Cajon Blvd form Alice Street to Esther Street and Madison Street form Alice Street to Esther Street. The project would affect the following streets: Missouri Street, Diamond Street, Emerald Street, Felspar Street, Garnet Avenue, Hornblend Street, Thomas Avenue, Noyes Street, Olney Street, El Cajon Blvd, Madison Ave, 59th Street (see attached project maps). The project is entirely within the Public Right of Way and one section of the project is (Water & Sewer at southern end of Olney St) located within the MHPA.

Project Description: The AC Water and Sewer Group 1036 project will install and rehabilitate approximately 18,074 LF (3.42 miles) of which 17,044 LF (3.23 miles) will be 8-inch and 12-inch water mains diameter polyvinyl chloride (PVC) water mains to realign and replace existing asbestos cement water mains via open trench construction methods. Excavation depths for new water mains will vary from 4 feet to 9 feet.

The AC Water and Sewer Group would include replacement of a total of 10,705 linear feet (LF) of water mains and 2,721 LF of sewer mains. Approximately 10,705 LF of existing 6-, 8- and 12-inch Asbestos Cement (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately 565 LF of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately 1286 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately 779 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

The AC Water and Sewer Group 1036 is located within the Pacific Beach, Mission Bay Park and College Area Communities Planning area (Council District 2, 9). The project is generally bounded by Missouri Street to the north, Pacific Beach Drive to the south, Lamont Street to the east, and Pendleton Street to the west. Additional segments were added to the project on 59th El Cajon Blvd, El Cajon Blvd from Alice Street to Esther Street and Madison Street from Alice Street to Esther Street. The project would affect the following streets: Missouri Street, Diamond Street, Emerald Street, Felspar Street, Garnet Avenue, Hornblend Street, Thomas Avenue, Noyes Street, Olney Street, El Cajon Blvd, Madison Ave, 59th Street (see attached project maps).

The project is entirely within the Public Right of Way and one section of the project is (Water & Sewer at southern end of Olney St) located within the MHPA.

The proposed scope of work would include replacement of a total of ~~10,288~~ 10,705 (LF) of water mains and ~~2,379~~ 2,721 LF of sewer mains. Approximately ~~10,288~~ 10,705 LF of existing 6-, 8- and 12-inch Asbestos Concrete (AC) water main will be replaced-in-place with new 8- and 12-inch polyvinyl chloride (PVC) water main within the same trench at the same or shallower depth. Approximately ~~1,232~~ 565 of existing 8-inch vitrified clay (VC) and clay pipe (CP) sewer main will be replaced-in-place in the same trench alignment at the same or shallower depth with new 8-Inch PVC sewer main. Approximately ~~409~~ 1,286 LF of PVC sewer main will be replaced in place within the same trench, but deeper than the existing depth with new PVC main sewer mains at depths ranging from 8 to 12 feet. Approximately ~~647~~ 779 LF of new 8-inch PVC sewer main and 91 LF of new 10-inch PVC sewer main will be installed in new alignments at depths ranging from 8 to 12 feet via open trench construction.

APPENDIX B
FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 2 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
 - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
 - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
 - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 3 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 4 OF 10	EFFECTIVE DATE October 15, 2002
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11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
 12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
 13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
 14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
 1. Temporary irrigation purposes not to exceed one year.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 5 OF 10	EFFECTIVE DATE October 15, 2002
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2. Construction and maintenance related activities (see Tab 2).
 - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
 - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
 - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
 - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
 - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
 - g. After the fees have been paid and an account has been created, the

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meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as “Hotline”), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter’s relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a “Notice of Discontinuation of Service” (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Water Department Director

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) <u>Zip:</u>	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use: <input type="text"/>	<input type="checkbox"/>	Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ()
Site Contact Name and Title:			Phone: ()
Responsible Party Name:			Title:
Cal ID#			Phone: ()
Signature:		Date:	
<small>Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter</small>			

Fire Hydrant Meter Removal Request	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ()	Pager: ()

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter	
Contract Acct #:	Deposit Amount: \$ 936.00	Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05	Meter Make and Style: 6-7
Backflow #	Backflow Size:	Backflow Make and Style:
Name:	Signature:	Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE WITH CASH FLOW FORECAST

WBS #:	B18108
Date Submitted:	10/10/2018
NTP Date:	3/23/2018
Final Statement of WD Date:	5/23/2020
Contract #:	K-XX-XXXX-XXX-X
Contract Amount:	\$5,617,000

Construction Cash Flow Forecast

"Sewer and Water Group Job 965 (W)"

Year	January	February	March	April	May	June	July	August	September	October	November	December
2018				15,000	25,000	52,000	52,000	100,000	10,000	100,000	100,000	100,000
2019	10,000	10,000	85,000	58,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,000,000
2020	100,000	100,000	100,000	1,000,000	1,000,000							
2021												
2022												
2023												
2024												
2025												

SAMPLE REFERENCE

APPENDIX E
LOCATION MAPS



Engineering & Capital Projects

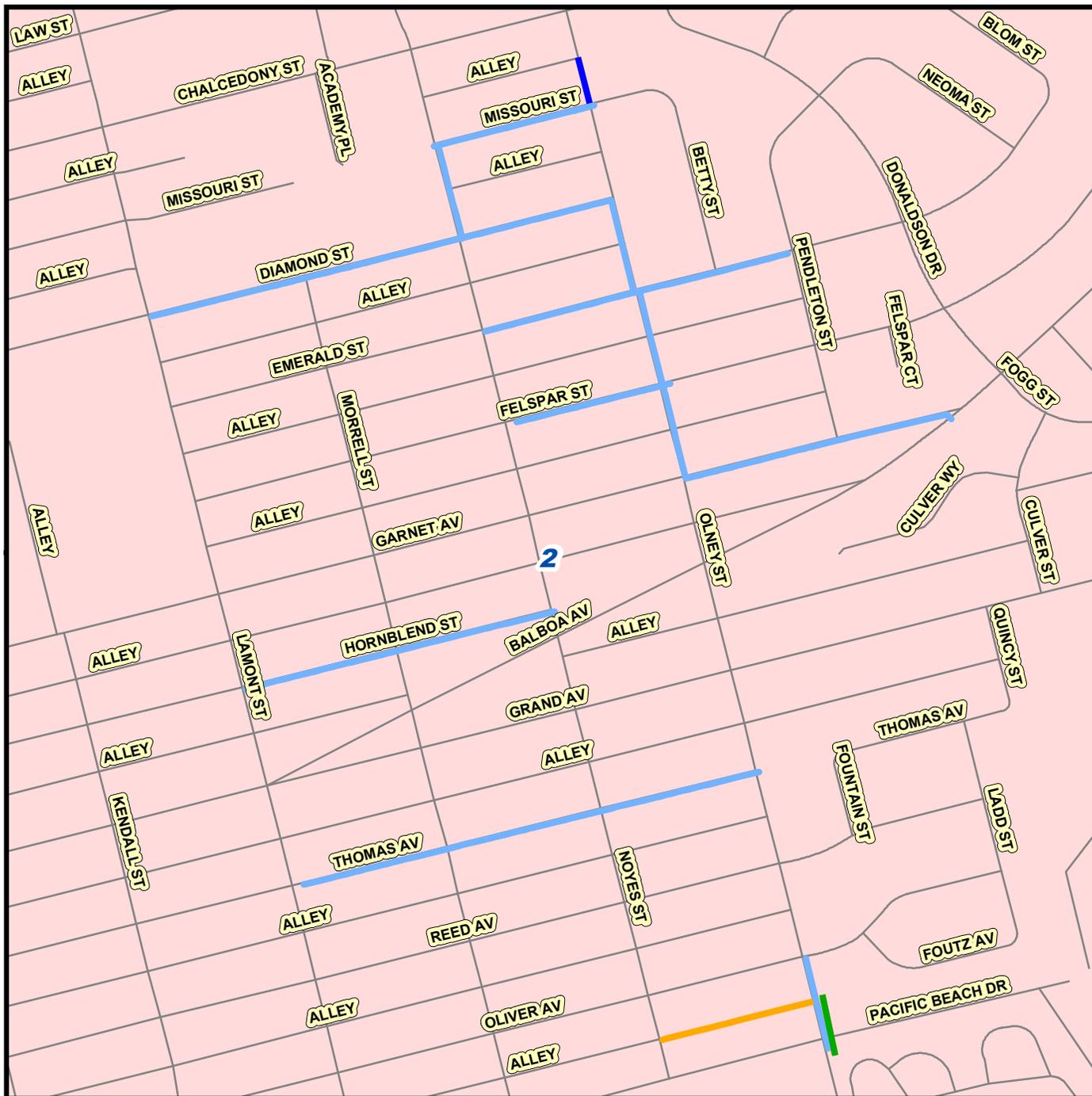
AC WATER AND SEWER GROUP 1036

SENIOR ENGINEER
NICOLE SALEM
619-533-7443

PROJECT MANAGER
JAMAL SHERZAI
619-533-4639

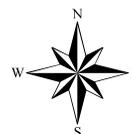
PROJECT ENGINEER
HANY BAKHEAT
619-533-5229

FOR QUESTIONS ABOUT THIS PROJECT
Call: 619-533-4207
Email: engineering@sandiego.gov



Legend

- Proposed Water Replacement
- Proposed Sewer Rehab
- Abandon water
- Proposed Sewer Replacement



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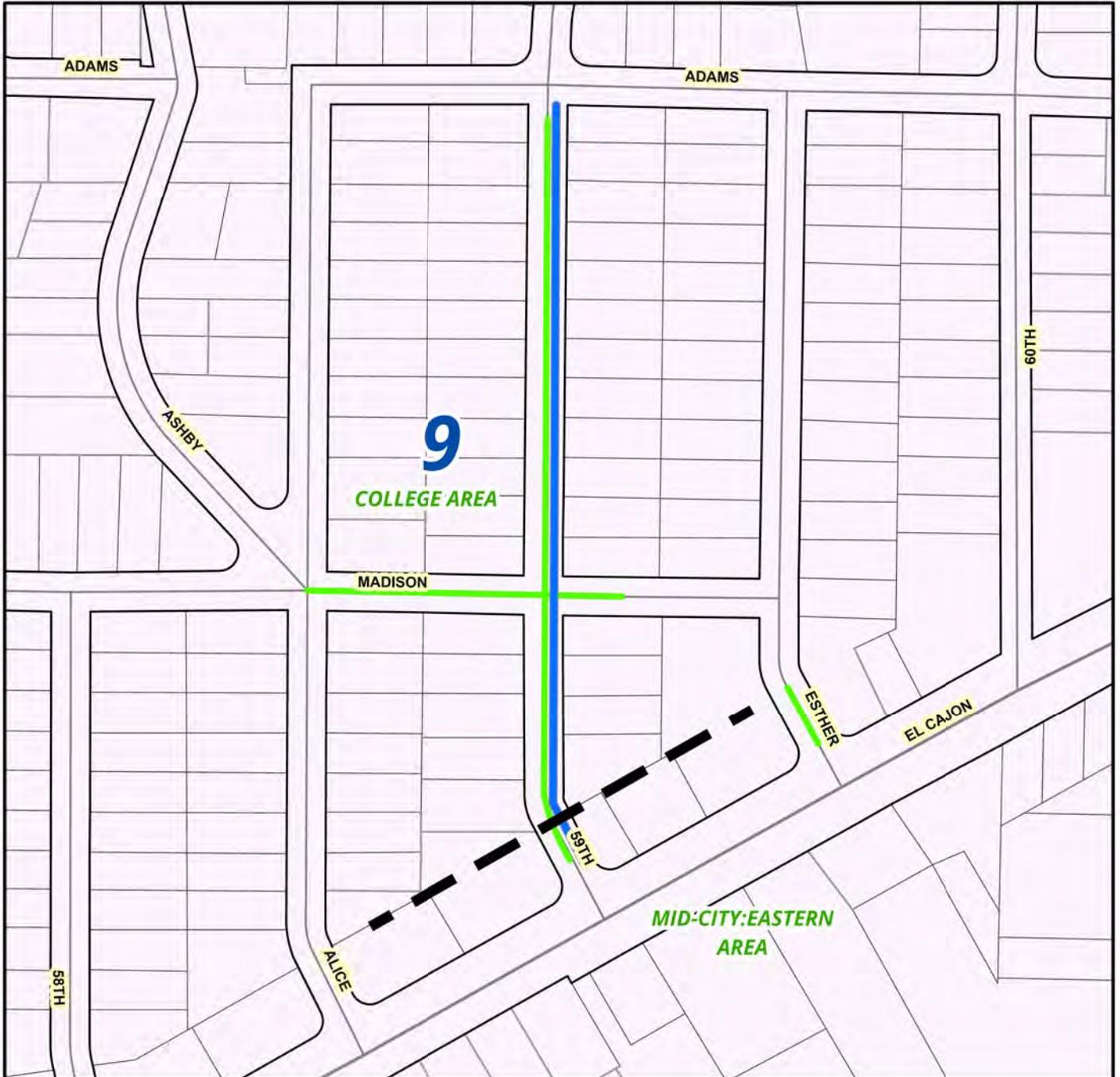
AC WATER AND SEWER GROUP 1036

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619-849-9866

PROJECT MANAGER
JAMAL SHERZAI
619-533-4639

PROJECT ENGINEER
HANY BAKHEAT
619-533-5229

FOR QUESTIONS ABOUT THIS PROJECT
Call: (619) 533-4207
Email: engineering@sandiego.gov



Legend

- ■ EX SEWER TO BE ABANDONED
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN



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APPENDIX F
ADJACENT PROJECTS MAPS

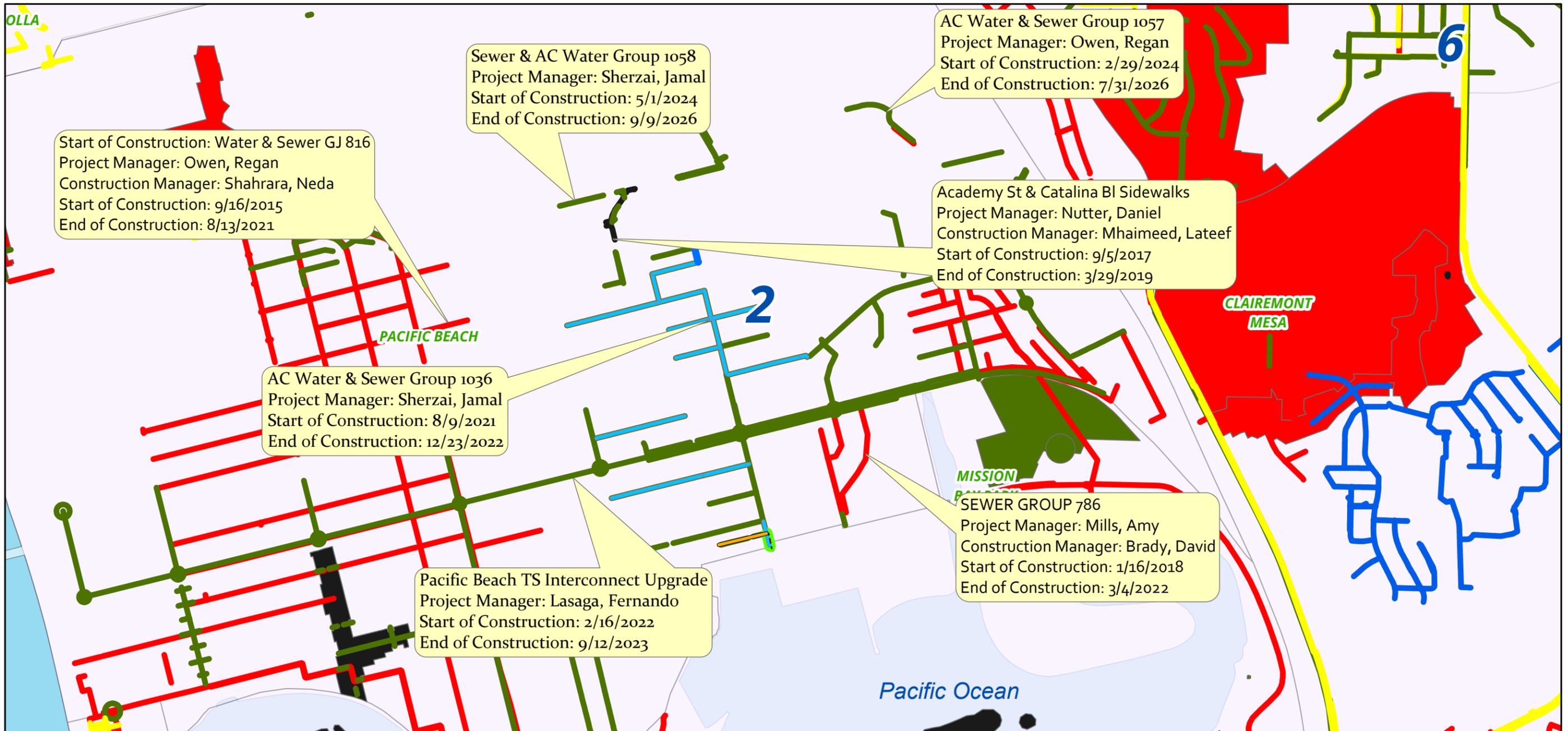
AC WATER AND SEWER GROUP 1036

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Multiple Habitat Planning Area

COMMUNITY NAME: Pacific Beach & Mission Bay Park

COUNCIL DISTRICT: 2



WBS NO: B18123 (S)
B18121 (W)

Date: 3/3/2021

AC Water and Sewer Group 1036
Appendix F - Adjacent Projects Maps



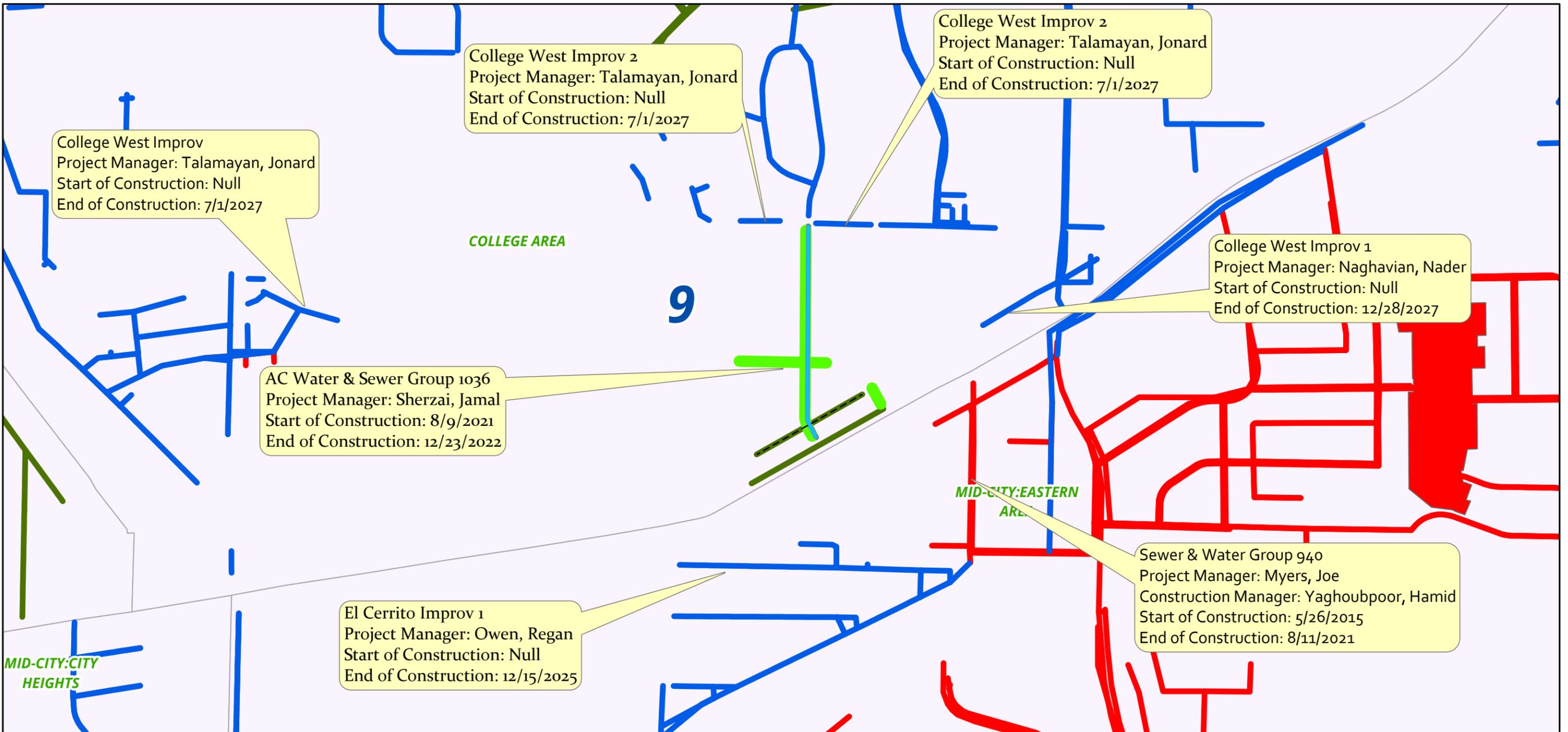
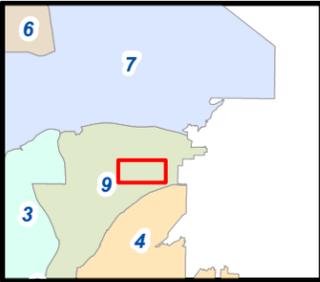
AC WATER AND SEWER GROUP 1036

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JAMAL SHERZAI
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Multiple Habitat Planning Area

COMMUNITY NAME: College Area

COUNCIL DISTRICT: 9



WBS NO: B18123 (S)
B18121 (W)

Date: 3/3/2021

AC Water and Sewer Group 1036
Appendix F - Adjacent Projects Maps



APPENDIX G

CONTRACTOR'S DAILY QUALITY CONTROL INSPECTION REPORT

City of San Diego
Rubber Polymer Modified Slurry
Contractor's Daily Quality Control Inspection Report

Project Title: _____ Date: _____

Ambient Temperature (Start of Work): _____ Time: _____

Environmental Considerations: _____

Locations (Address Range/Cross Streets):

1. _____
2. _____
3. _____

Approved Mix Design: _____

Material Suppliers: _____

RPMS Type(s): _____

Slurry Machine #'s: _____

Estimated Cure Time (Break) of Slurry: _____

Pre-Mix (Per 100 Counts)

Gate Setting/Emulsion %: _____

Aggregate Weight: _____

Cement % (by weight of aggregate): _____

Crumb Rubber % (by volume of cement): _____

Machine Inspection

Leaks: _____

Sprayers: _____

Emulsion Filter: _____

Carbon Black: _____

Spreader Box Inspection

Cleanliness: _____

Augers: _____

Rubbers: _____

Fabric: _____

Runners: _____

City of San Diego
Rubber Polymer Modified Slurry
Contractor's Daily Quality Control Inspection Report

Project Conditions

Crack Fill: _____

Asphalt Deficiencies: _____

Cleanliness: _____

Impediments/Other: _____

Communication to Client/ Resident Engineer

Crack Fill: _____

Asphalt Deficiencies: _____

Cleanliness: _____

Impediments/Other: _____

Test Lab

Tech: _____ Time on Site: _____

Notes

QCP Administrator Signature:

Date Signed:

Appendix G

City of San Diego
Asphalt Concrete Overlay
Contractor's Daily Quality Control Inspection Report

Project Title: _____ Date: _____

Locations: 1. _____
2. _____
3. _____

Asphalt Mix Specification: Attached Supplier: _____

Dig out Locations: 1. _____
2. _____
3. _____

Tack Coat Application Rate @ Locations:
1. _____
2. _____
3. _____

Asphalt Temperature at Placement @ Locations:
1. _____
2. _____
3. _____

Asphalt Depth @Locations:
1. _____
2. _____
3. _____

Compaction Test Result @Locations:
1. _____
2. _____
3. _____

Location and nature of defects:

- 1. _____
- 2. _____
- 3. _____

Remedial and Corrective Actions taken or proposed for Engineer's approval:

- 1. _____
- 2. _____
- 3. _____

Date's City Laboratory representative was present:

- 1. _____
- 2. _____
- 3. _____

Verified the following:

- 1. Proper Storage of Materials & Equipment
- 2. Proper Operation of Equipment
- 3. Adherence to Plans and Specs
- 4. Review of QC Tests
- 5. Safety Inspection

Initials:

- _____
- _____
- _____
- _____
- _____

Deviations from QCP _____ (see attached)

Quality Control Plan Administrator's Signature:

Date Signed:

APPENDIX H

MONTHLY DRINKING WATER DISCHARGE MONITORING FORM

DRINKING WATER DISCHARGE MONITORING FORM

(Use for All Discharges to the Storm Drain)

All discharge activities related to this project comply with the State Water Resources Control Board ORDER WQ 2014-0194-DWQ, STATEWIDE GENERAL NPDES PERMIT FOR DRINKING WATER SYSTEMS DISCHARGES as referenced by (http://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinkingwater/final_statewide_wqo2014_0194_dwq.pdf), and as follows:

Project Name:		WBS No.:		Watershed No.	
Qualified Person Conducting Tests:		signature			

BMPs MUST BE IN PLACE PRIOR TO ANY SCHEDULED DISCHARGE By signing, I certify that all of the statements and conditions for drinking water discharge events are correct.

Event #1												
Discharge Location ¹	Category ² (Select one)	Notification ³ (Select all that apply)	BMPs in Place ⁴ (Select all that apply)	Volume ⁵ (gal)	Sampling ⁶ (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence ⁷			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
Inlet Location Start End Date: Time: Date: Time:	Superchlorinated <small>(Chlorine added for disinfection)</small>	TSW <small>(All Categories)</small>	Sweep flow path <small>(gutter, street, etc.)</small>	Total	Chlorine	mg/L			0.1 mg/L= Exceedence			
	Large Volume <small>(≥ 325,850 gal)</small>	PUD <small>(All Categories)</small>	Dechlorination <small>(diffusers, chemicals, etc.)</small>				Reused <small>(if any)</small>					
	Well Dev/Rehab <small>(Not Typical)</small>	Water Board <small>(Large Volume Only)</small>	Inlet Protection		Turbidity	NTU			20 NTU= Exceedence 225 NTU= Exceedence for Ocean			
	Small Volume/Other <small>(No Sampling Required)</small>	County <small>(≥100,000 gal & within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	Erosion Controls									
			Sediment Controls		pH	Unit			Range 6.5 to 8.5			

Event #2												
Discharge Location ¹	Category ² (Select one)	Notification ³ (Select all that apply)	BMPs in Place ⁴ (Select all that apply)	Volume ⁵ (gal)	Sampling ⁶ (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence ⁷			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
Inlet Location Start End Date: Time: Date: Time:	Superchlorinated <small>(Chlorine added for disinfection)</small>	TSW <small>(All Categories)</small>	Sweep flow path <small>(gutter, street, etc.)</small>	Total	Chlorine	mg/L			0.1 mg/L= Exceedence			
	Large Volume <small>(≥ 325,850 gal)</small>	PUD <small>(All Categories)</small>	Dechlorination <small>(diffusers, chemicals, etc.)</small>				Reused <small>(if any)</small>					
	Well Dev/Rehab <small>(Not Typical)</small>	Water Board <small>(Large Volume Only)</small>	Inlet Protection		Turbidity	NTU			20 NTU= Exceedence 225 NTU= Exceedence for Ocean			
	Small Volume/Other <small>(No Sampling Required)</small>	County <small>(≥100,000 gal & within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	Erosion Controls									
			Sediment Controls		pH	Unit			Range 6.5 to 8.5			

Instructional Notes found on the Page 2 of 2

Submit completed Form to RE

Receiving Water Monitoring

(Complete only if limits exceed on Page 1 of 2)

Event #1	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
4) If any answers are YES, Notify the RE immediately for further action	

Event #2	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
4) If any answers are YES, Notify the RE immediately for further action	

Instructional Notes

- 1) Log the location of the inlet or discharge point. For example: Albatross St & 5th Av. Log the start date and time and the end date and time of the discharge.
- 2) Log the discharge category. "Superchlorinated" are discharges where additional chlorine is added in order to adequately disinfect and sanitize drinking water system facilities. This does NOT include potable water containing residual chlorine from the water treatment process. "Large Volume" discharges are greater than 325,850 gallons of total volume for one event. "Well Dev/Rehab" are discharges of potable ground water from a well. This is not typical. If none of these categories apply, then select "Small Volume/Other."
- 3) Notifications of the location, date, time, category, and estimated volume of discharge must be made to the contacts and per the requirements below:

Contact	When to Notify	Email
TSW	3 days prior to all discharges	SWPPP@SanDiego.gov
PUD	3 days prior to all discharges	CompReports@SanDiego.gov Rdavenport@SanDiego.gov
San Diego Water Board	3 days prior to Large Volume discharges	SanDiego@WaterBoards.ca.gov Ben.Neill@WaterBoards.ca.gov
County of San Diego	3 days prior if 100,000 gal and within 1/4 mile of ocean/bay	DEH: Joseph.Palmer@SDCounty.ca.gov Dominique.Edwards@SDCounty.ca.gov
	3 days prior if enter county MS4 or unincorporated County	WPP: Nicholas.DeValle@SDCounty.ca.gov LUEG.Watersheds@sdcounty.ca.gov

- 4) At a minimum, sweep gutters prior to starting discharge and use dechlorination BMPs. The contractor and RE must monitor and determine if BMPs need to be removed or modified. For example if inlet protection is causing flooding at a storm drain inlet, contractor may elect to remove BMPs. Document any modification to BMPs in the notes
- 5) Total volume must be logged for all discharges. If discharge water is reused for other purposes such as watering a golf course, log that volume under "Reused"
- 6) Sampling is required for categories per the following table:

Category	Measure	Sample Frequency
Superchlorinated	Chlorine, Turbidity, pH	first 10 min, 50-60 min, last 10 min
Large Volume	Chlorine Turbidity	first 10 min, 50-60 min, last 10 min
Well Dev/Rehab	Chlorine Turbidity	first 10 min, 50-60 min, last 10 min
Small Volume/Other	None required	N/A

- 7) Effluent limitations must be monitored not to exceed per the following table:

Measure	Method	Limit
Chlorine	Field Measure	0.10 mg/L-Cl
Turbidity	Visual Estimate	20 NTU for inland waters
		225 NTU for ocean 100 NTU for wells
pH	Field Measure	6.5 - 8.5

APPENDIX I

REHABILITATION SAMPLE DATA COLLECTION – LATERALS SAMPLE DATA TEMPLATE

APPENDIX J

**REHABILITATION SAMPLE DATA COLLECTIONS – SEWER MAINS SAMPLE DATA
TEMPLATE**

APPENDIX K

REHABILITATION SAMPLE DATA COLLECTIONS – MANHOLES SAMPLE DATA TEMPLATE

APPENDIX L
MORATORIUM MAP

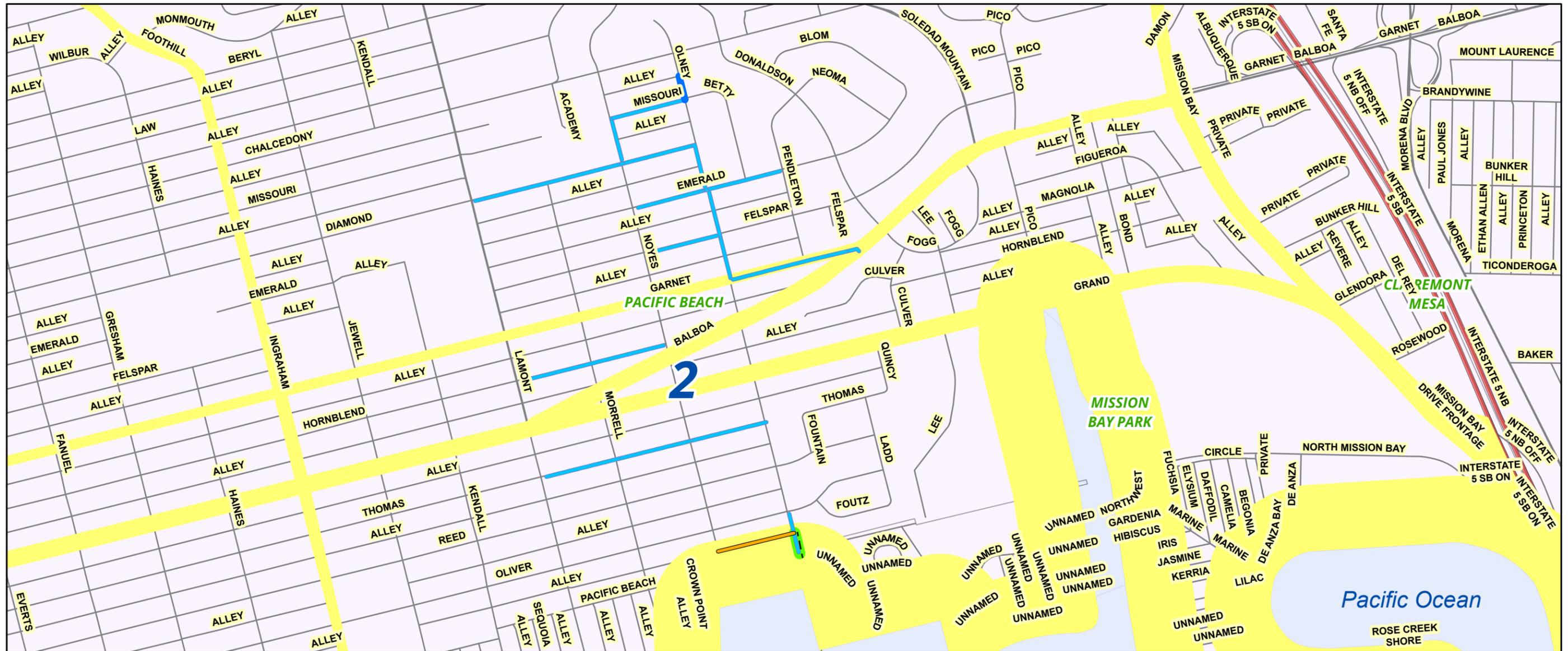
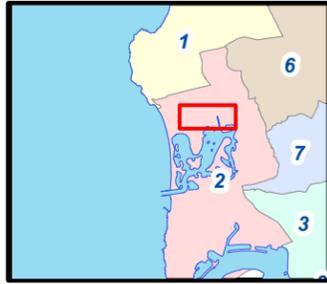
AC WATER AND SEWER GROUP 1036

SENIOR ENGINEER
NICOLE SALEM
619-849-9866

PROJECT MANAGER
JAMAL SHERZAI
619-533-4639

PROJECT ENGINEER
HANY BAKHEAT
619-533-5229

FOR QUESTIONS ABOUT THIS PROJECT
Call: (619) 533-4207
Email: engineering@sandiego.gov



Legend

- Moratorium Summer Beaches
- PROPOSED SEWER MAIN
- ABANDON WATER
- SEWER REHAB
- EX SEWER TO BE ABANDONED
- PROPOSED WATER MAIN

Moratorium Summer Beaches

COMMUNITY NAME: Pacific Beach & Mission Bay Park

COUNCIL DISTRICT: 2



WBS NO: B18123 (S)
B18121 (W)

Date: 3/11/2021



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APPENDIX M

**AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE AND MULTIPLE HABITAT PLANNING
AREA MAP**

APPENDIX N
SAMPLE OF PUBLIC NOTICE

FOR SAMPLE REFERENCE ONLY



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
- This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
- Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
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- Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX

To contact the City of San Diego:  Public Works
619-533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

AC Water and Sewer Group 1036
This information is available in alternative formats upon request.
Appendix N - Sample of Public Notice

To contact the City of San Diego:  Public Works
619-533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

This information is available in alternative formats upon request.

APPENDIX O

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 402-2, "Protection", of the 2018 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

- A. Endpoints, see Photo 1:

Photo 1



B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:



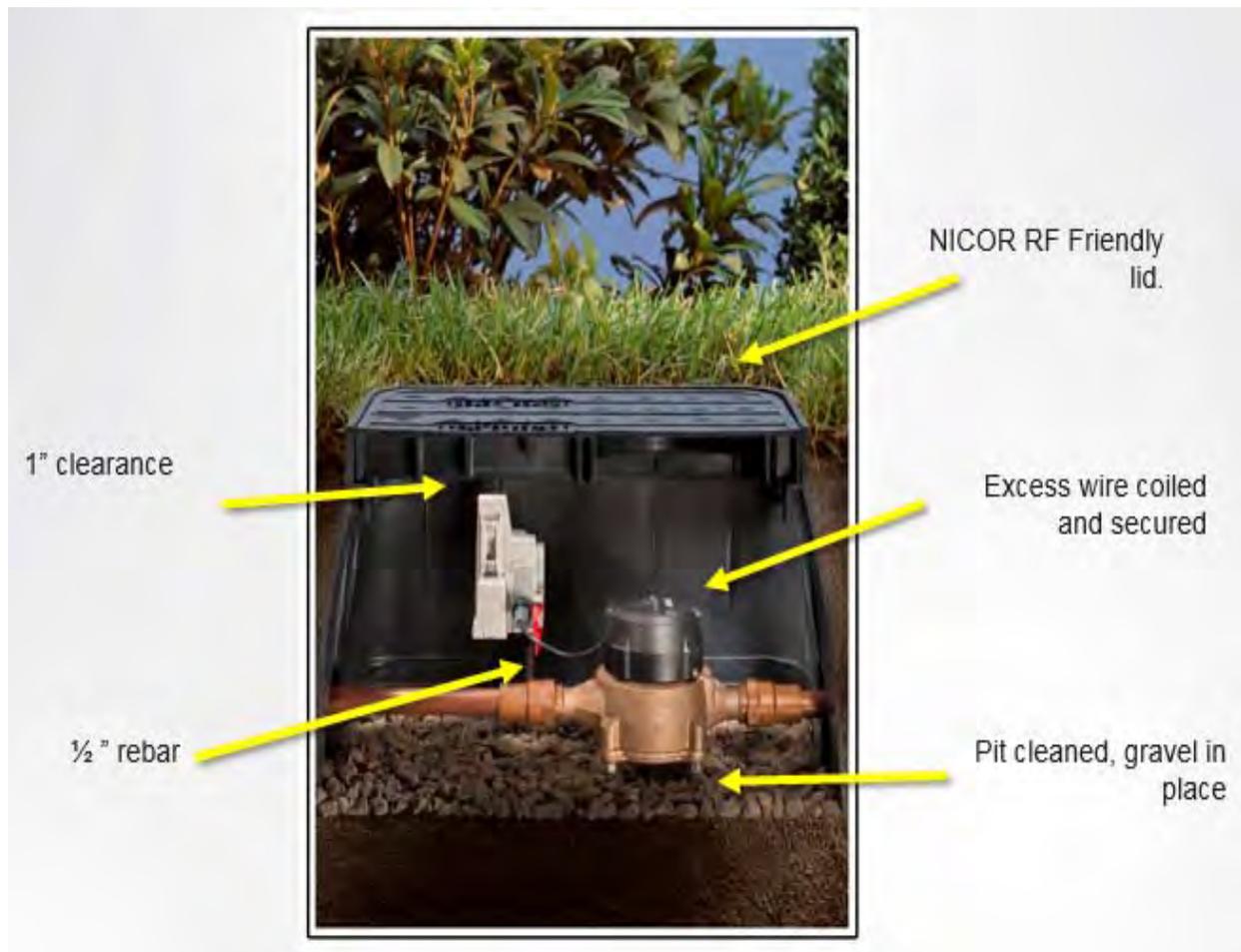
Network Devices, see Photo 3:

Photo 3



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

Photo 4



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

Photo 5

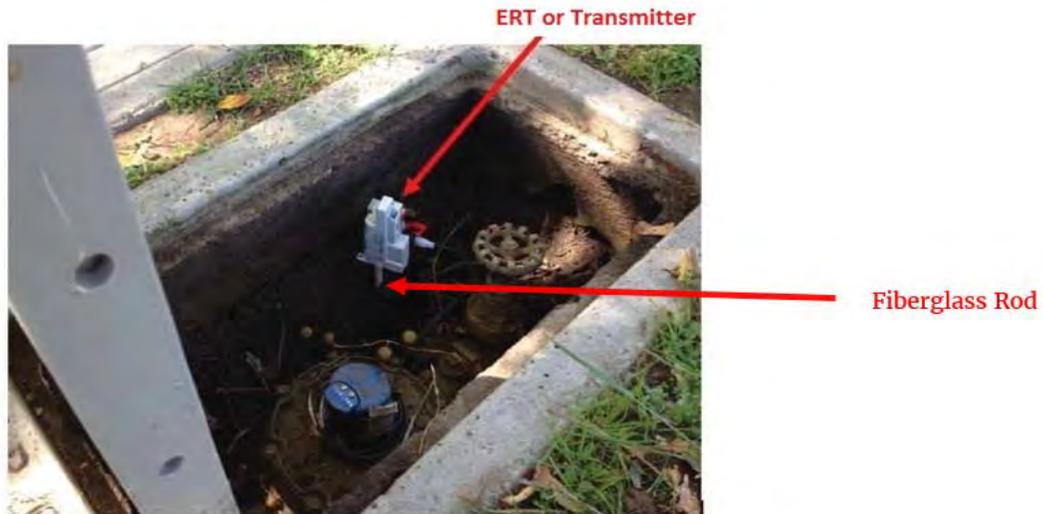


Photo 6 below is an example of disturbance that shall be avoided:

Photo 6



You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

Photo 7



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8



Network Device

Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

APPENDIX P
HAZARDOUS WASTE LABEL/FORMS

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR NAME _____
ADDRESS _____ 24 HR. PHONE () _____
CITY _____ STATE _____ ZIP _____
EPA ID NO. _____ MANIFEST DOCUMENT NO. _____
EPA WASTE NO. _____ CA WASTE NO. _____ ACCUMULATION START DATE / / _____

CONTENTS, COMPOSITION _____
PROPER DOT SHIPPING NAME _____
TECHNICAL NAME (S) _____
UNNA NO. WITH PREFIX _____

PHYSICAL STATE | HAZARDOUS PROPERTIES | FLAMMABLE | TOXIC
 SOLID | LIQUID | CORROSIVE | REACTIVE | OTHER _____

HANDLE WITH CARE!
CONTAINS HAZARDOUS OR TOXIC WASTES

INCIDENT/RELEASE ASSESSMENT FORM ¹

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

¹ This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION

Incident # _____

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER () -					
B	INCIDENT DATE	MO	DAY	YR	TIME OES NOTIFIED	(use 24 hr time)	OES CONTROL NO.
C	INCIDENT ADDRESS LOCATION			CITY / COMMUNITY	COUNTY	ZIP	
D	CHEMICAL OR TRADE NAME (print or type)					CAS Number	
D	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>				CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>		
D	PHYSICAL STATE CONTAINED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS		PHYSICAL STATE RELEASED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS		QUANTITY RELEASED		
D	ENVIRONMENTAL CONTAMINATION <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER			TIME OF RELEASE	DURATION OF RELEASE — DAYS — HOURS — MINUTES		
E	ACTIONS TAKEN						
F	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)						
<input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____							
<input type="checkbox"/> CHRONIC OR DELAYED (explain) _____							
<input type="checkbox"/> NOTKNOWN (explain) _____							
G	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS						
H	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)						
I	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete.						
REPORTING FACILITY REPRESENTATIVE (print or type) _____							
SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____							

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

**State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655**

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX Q
SAMPLE ARCHAEOLOGY INVOICE

(FOR ARCHAEOLOGY ONLY)

Company Name

Address, telephone, fax

Date: Insert Date

To: Name of Resident Engineer
City of San Diego
Construction Management and
Field Services Division
9573 Chesapeake Drive
San Diego, CA 92123-1304

Project Name: Insert Project Name

SAP Number (WBS/IO/CC): Insert SAP Number

Drawing Number: Insert Drawing Number

Invoice period: Insert Date to Insert Date

Work Completed: Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

Detailed summary of work completed under this bid item: Insert detailed description of Work related to Archaeology Monitoring Bid item. See Note 1 below.

Summary of charges:

Description of Services	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist	Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant	Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal						\$3,420

Work Completed: Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

Detailed summary of work completed under this bid item: Insert detailed description of Work related to Archaeology Curation/Discovery Bid item. See Note 2 below.

Summary of charges:

Description of Services	Where work occurred (onsite vs offsite/lab)	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist		Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant		Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal							\$3,420

Total this invoice: \$ _____

Total invoiced to date: \$ _____

Note 1:

For monitoring related bid items or work please include summary of construction work that was monitored from Station to Station, Native American monitors present, MMC coordination, status and nature of monitoring and if any discoveries were made.

Note 2:

For curation/discovery related bid items or work completed as part of a discovery and curation process, the PI must provide a response to the following questions along with the invoice:

1. Preliminary results of testing including tentative recommendations regarding eligibility for listing in the California Register of Historical Resources (California Register).
 - a. Please briefly describe your application (consideration) of all four California Register criteria.
 - b. If the resource is eligible under Criterion D, please define the important information that may be present.
 - c. Were specialized studies performed? How many personnel were required? How many Native American monitors were present?
 - d. What is the age of the resource?
 - e. Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the San Diego Archaeological Center (SDAC). How many personnel were required? How many Native American monitors were present?
2. Preliminary results of data recovery and a definition of the size of the representative sample.
 - a. Were specialized studies performed? Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the SDAC. How many personnel were required? How many Native American monitors were present?
3. What resources were discovered during monitoring?
4. What is the landform context and what is the integrity of the resources?
5. What additional studies are necessary?
6. Based on application of the California Register criteria, what is the significance of the resources?
 - a. If the resource is eligible for the California Register, can the resource be avoided by construction?
 - b. If not, what treatment (mitigation) measures are proposed? Please define data to be recovered (if necessary) and what material will be submitted to the SDAC for curation. Are any specialized studies proposed?

(After the first invoice, not all the above information needs to be re-stated, just revise as applicable).

ATTACHMENT F
RESERVED

ATTACHMENT G
CONTRACT AGREEMENT

ATTACHMENT G CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This Phase-Funded contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Palm Engineering & Construction Co., Inc., herein called "Contractor" for construction of **AC Water and Sewer Group 1036**; Bid No. **K-21-2026-DBB-3**; in the total amount Six Million Twenty Nine Thousand Three Hundred Thirty Eight Dollars and Sixty Cents (6,029,338.60), which is comprised of the Base Bid plus Additive Alternates A & B, consisting of an amount not to exceed \$3,073,827.40 for Phase I and \$2,955,511.20 for Phase II.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

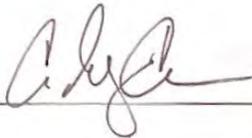
1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
 - (d) Phased Funding Schedule Agreement.
 - (e) That certain documents entitled **AC Water and Sewer Group 1036**, on file in the office of the Engineering & Capital Projects Department as Document No. **B-18121**, **B-18123**, as well as all matters referenced therein.
2. The City wishes to construct this Project on a Phase- Funded basis. In accordance with Whitebook section 7-3.10, the City is only obligated to pay for Phase I; Contractor cannot begin, nor is the City financially liable for any additional Phases, unless and until Contractor is issued a Notice to Proceed for each additional Phase by the City.
3. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **AC Water and Sewer Group 1036**, Bid No. **K-21-2026-DBB-3**, San Diego, California.
4. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances (See WHITEBOOK, Section 7-3.10, Phased Funding Compensation).
5. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
6. This contract is effective as of the date that the Mayor or designee signs the agreement and is approved by the City Attorney in accordance with San Diego Charter Section 40.

CONTRACT AGREEMENT (continued)

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code §22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By 

Mara W. Elliott, City Attorney

By 

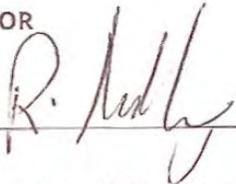
Print Name: Cindy Crocker
Acting Deputy Director
Purchasing & Contracting Department

Print Name: Benny Hsu
Deputy City Attorney

Date: 1/27/2022

Date: 1/27/22

CONTRACTOR

By 

Print Name: Rasoul Shahbazi

Title: President

Date: 12/16/21

City of San Diego License No.: B2004010181

State Contractor's License No.: 853930

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000003218

CERTIFICATIONS AND FORMS

The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.

BIDDER'S GENERAL INFORMATION

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23
UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

CONTRACTOR CERTIFICATION

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, ("Contractor Standards and Pledge of Compliance"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

CONTRACTOR CERTIFICATION

EQUAL BENEFITS ORDINANCE CERTIFICATION

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

CONTRACTOR CERTIFICATION

EQUAL PAY ORDINANCE CERTIFICATION

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, 2____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

AC Water and Sewer Group 1036

(Project Title)

as particularly described in said contract and identified as Bid No. **K-21-2026-DBB-3**; SAP No. (WBS/IO/CC) **B-18121, B18123**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

By: _____
Contractor

ATTEST:

State of _____ County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

LIST OF SUBCONTRACTORS

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY*** SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - Section 3-2, "SELF-PERFORMANCE", which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED®	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | | |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *** TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY *** SEE INSTRUCTIONS TO BIDDERS FOR FURTHER INFORMATION**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						

- ① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |
- ② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | | |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

ELECTRONICALLY SUBMITTED FORMS

FAILURE TO FULLY COMPLETE AND SUBMIT ANY OF THE FOLLOWING FORMS WILL DEEM YOUR BID NON-RESPONSIVE.

PLANETBIDS WILL NOT ALLOW FOR BID SUBMISSIONS WITHOUT THE ATTACHMENT OF THESE FORMS

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

- A. BID BOND – See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**
- B. CONTRACTOR’S CERTIFICATION OF PENDING ACTIONS**
- C. SUBCONTRACTOR LISTING FOR ALTERNATE ITEMS**
- D. MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**
- E. DEBARMENT AND SUSPENSION CERTIFICATION FOR PRIME CONTRACTOR**
- F. DEBARMENT AND SUSPENSION CERTIFICATION FOR SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS**
- G. Contractor’s Experience and Past Project Documentation. See SSP and 2018 WB, Section 500-2.1, “Initial Submittals” subitem 1a)**
- H. Manufacturer Authorized Installer Certification. See SSP and 2018 WB, Section 500-2.1, “Initial Submittals” subitem 1b)**

BID BOND

**See Instructions to Bidders, Bidder Guarantee of Good Faith
(Bid Security)**

KNOW ALL MEN BY THESE PRESENTS,

That PALM ENGINEERING CONSTRUCTION COMPANY, INC. as Principal, and THE OHIO CASUALTY INSURANCE COMPANY as Surety, are held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled AC WATER AND SEWER GROUP 1036

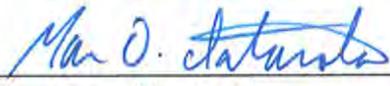
NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 3RD day of MAY, 2021

PALM ENGINEERING CONSTRUCTION COMPANY, INC. (SEAL)
(Principal)

THE OHIO CASUALTY INSURANCE COMPANY (SEAL)
(Surety)

By: 
(Signature)
RASOUL SHAHBAZI, PRESIDENT

By: 
(Signature)
MARK D. IATAROLA, ATTORNEY-IN-FACT

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

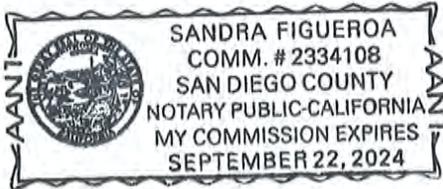
CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of SAN DIEGO }

On 5/3/2021 before me, SANDRA FIGUEROA, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer
personally appeared MARK D. IATAROLA
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal and/or Stamp Above

Signature *Sandra Figueroa*
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA

Signer's Name: _____

Corporate Officer – Title(s): _____

Corporate Officer – Title(s): _____

Partner – Limited General

Partner – Limited General

Individual Attorney in Fact

Individual Attorney in Fact

Trustee Guardian of Conservator

Trustee Guardian of Conservator

Other: _____

Other: _____

Signer is Representing: _____

Signer is Representing: _____



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8205111-024100

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Helen Maloney; John G. Maloney; Mark D. Iatarola; Sandra Figueroa; Tracy Holmes; Tracy Lynn Rodriguez

all of the city of Escondido state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 29th day of March, 2021.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 29th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 3RD day of MAY, 2021.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

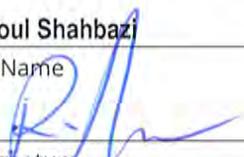
CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Palm Engineering Construction Company, Inc.

Certified By Rasoul Shahbazi Title President
Name

Signature Date 05/06/2021

USE ADDITIONAL FORMS AS NECESSARY

SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE
***** FOR USE WHEN LISTING SUBCONTRACTORS ON ALTERNATES *****
(Use Additional Sheets As Needed)

ADDITIVE/DEDUCTIVE ALTERNATE	SUBCONTRACTOR NAME, LOCATION, PHONE & EMAIL	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
	Name: NONE Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC		
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal Name		DBA	
Palm Engineering Construction Company, Inc.			
Street Address	City	State	Zip
3545 Camino del Rio South, Suite A, San Diego	San Diego	CA	92108
Contact Person, Title		Phone	Fax
Rasoul Shahbazi, President		619-291-1495	619-291-0482

Provide the name, identity, and precise nature of the interest* of all persons who are directly or indirectly involved** in this proposed transaction (SDMC § 21.0103).

* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction, the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and any philanthropic, scientific, artistic, or property interest in the transaction.

** Directly or indirectly involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City,
- or directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position
Rasoul Shahbazi	President
City and State of Residence	Employer (if different than Bidder/Proposer)
Chula Vista, CA	
Interest in the transaction	
100% Ownership of Palm Engineering Construction Company, Inc.	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

*** Use Additional Pages if Necessary ***

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Rasoul Shahbazi, President

05/06/2021

Print Name, Title

Signature

Date

Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.

**DEBARMENT AND SUSPENSION CERTIFICATION
PRIME CONTRACTOR
FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

EFFECT OF DEBARMENT OR SUSPENSION

To promote integrity in the City's contracting processes and to protect the public interest, the City shall only enter into contracts with responsible- bidders and contractors. In accordance with San Diego Municipal Code §22.0814 (a): *Bidders* and *contractors* who have been *debarred* or *suspended* are excluded from submitting bids, submitting responses to requests for proposal or qualifications, receiving *contract* awards, executing *contracts*, participating as a *subcontractor*, employee, agent or representative of another *person* contracting with the City.

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s).

The names of all persons interested in the foregoing proposal as Principals are as follows:

NAME	TITLE
Rasoul Shahbazi	President

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

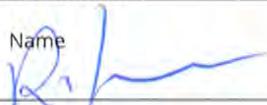
- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State or local agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State or local agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Contractor Name: Palm Engineering Construction Company, Inc.

Certified By Rasoul Shahbazi Title President

Name 

Date 05/06/2021

Signature

NOTE: Providing false information may result in criminal prosecution or administrative sanctions.

**DEBARMENT AND SUSPENSION CERTIFICATION
SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS
TO BE COMPLETED BY BIDDER
FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE**

Names of the Principal individual owner(s)

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor, supplier, and/or manufacturer:**

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
STATEWIDE STRIPES INC	
DAVID ANTHONY BRILHANTE	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
A B HASHMI INC	
AHMAD BILAL HASHMI	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
G SCOTT ASPHALT INC	
DANIEL CALVIN WEMPLE	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
FRANK AND SON PAVING INC	
ALICIA TOVAR VASQUEZ	RMO / CEO / PRES

Contractor Name: Palm Engineering Construction Company, Inc.

Certified By Rasoul Shahbazi Title President


Name _____
Signature _____ Date 05/06/2021

****USE ADDITIONAL FORMS AS NECESSARY****

**DEBARMENT AND SUSPENSION CERTIFICATION
SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS
*TO BE COMPLETED BY BIDDER***

FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE

Names of the Principal individual owner(s)

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor**, **supplier**, and/or **manufacturer**:

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSULTANT (MONITORING)	
RED TAIL MONITORING & RESEARCH, INC.	
CLINT LINTON	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSULTANT (PUBLIC RELATIONS)	
VIC SALAZAR ENTERPRISES, LLC	
VIC SALAZAR	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
SOCLARIS CONTRACTING	
SONNY ROSENAL	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
MCGRATH HOLDINGS, INC.	
MICHAEL MCGRATH	RMO / CEO / PRES

Contractor Name: Palm Engineering Construction Company, Inc.

Certified By Rasoul Shahbazi Title President


 Name _____
 Signature _____
 Date 05/06/2021

****USE ADDITIONAL FORMS AS NECESSARY****

**DEBARMENT AND SUSPENSION CERTIFICATION
SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS
TO BE COMPLETED BY BIDDER
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Please indicate if principal owner is serving in the capacity of **subcontractor**, **supplier**, and/or **manufacturer**:

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
R & C STRUCTURES INC	
PETER JOSEPH SANTAR	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
SOUTHWEST TRAFFIC SIGNAL SERVICE INC	
JAMES EMERSON CRESS	RMO

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
NULINE TECHNOLOGIES LLC	
DOMINIC JOSEPH BURTECH JR	RMO / CEO / PRES

SUBCONTRACTOR SUPPLIER MANUFACTURER

NAME	TITLE
CONSTRUCTOR	
NATIONAL COATING & LINING COMPANY	
JAMES WARREN PLEASANTS II	RMO

Contractor Name: Palm Engineering Construction Company, Inc.

Certified By Rasoul Shahbazi Title President


Name _____
Signature _____ Date 05/06/2021

****USE ADDITIONAL FORMS AS NECESSARY****



Statement of Qualifications

Nu-Line Technologies, LLC has been successfully protecting infrastructure utilities since January of 2015. Nu-Line Technologies, LLC was introduced to the local wastewater and storm water infrastructure with the City of San Diego in 2015. Prior to our name change in January of 2015, we successfully completed infrastructure projects with the City of San Diego and other local agencies as Burtech Pipeline Inc. since 2007. With a new focus on infrastructure rehabilitation in our immediate San Diego Market, Nu-Line Technologies, LLC was launched to focus strictly on infrastructure rehabilitation methodologies with the advancement of mainline Cured-In-Place lining as well as service lateral connections (UV Curing) and lateral lining rehabilitation.

Installation Experience

Our installation crews have a minimum 10 years of experience in the Cured in Place field and have successfully completed projects throughout the western United States. Our Field Superintendent, Jorge Beltran has overseen and completed smaller to large scale projects throughout the western region since 1999. We are a fully licensed and bonded General Engineering Contractor and have completed many projects as Nu-Line Technologies, LLC similar in size and scale in California and New Mexico. Nu-Line Cured In Place and Spiral Wound Crews have installed over 920,000 linear feet ranging from 6" to 60" diameters for both sanitary sewer and storm drain applications.

Industry Qualifications

- Licensed General Contractor in the State of California, License No. 997520 - A
- City of Los Angeles/Greenbook Approved materials for Cured In Place and UV Service Lateral Connections
- Confined Space Certified, First aid and CPR certified.
- Certified Installer of Cosmic UV Top Hats & Sectional Liner
- Certified Installer of Applied Felts CIPP liner materials.
- Certified Installer of Sekisui SPR Americas Spiral Wound Pipeline products.
- Certified Installer of MTC (Aegion) CIPP Liner Products.
- ISNetworkworld trained and certified

Nu-Line Technologies, LLC. and its employees are fully cognizant and comply with all Federal and State OSHA regulations regarding confined space entry and procedures.

Frank Durazo

A handwritten signature in blue ink, appearing to read "Frank Durazo", written over a white background.

Operations Manager — Nu-Line Technologies, LLC.



APPLIED FELTS

Applied Felts, Inc. 450 College Drive, Martinsville, Virginia 24112
Telephone (276) 656-1904 Fax: (276) 656-1909
office@appliedfelts.com

April 3, 2015

To Whom It May Concern:

This letter certifies that Applied Felts manufactured tubes meet the material requirements of ASTM F1216-09 (paragraph 5.1) and ASTM F 1743-08(section 6) as well as meet the minimum strength requirements of ASTM-D5813-04 (paragraph 6.1). All our materials and finished products are tested to ensure suitability to the application. Each liner is typically tested in 28 different ways and traceable test data is available for any particular liner.

Applied Felts has provided polymer coated felt tubes for use in Cured In Place Pipe (CIPP) lining for more than fifteen years, and supplied materials for the CIPP industry for more than twenty years. Over 75 million feet of our liner has been successfully installed in North America. Our liners are assembled in Martinsville, VA, using only components made in the USA.

Applied Felts is a registered ISO 9001:2008 company.
Nu-Line Technologies, LLC is a certified installer of Applied Felts lining products.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Mark Sanders".

W. Mark Sanders
General Manager



FERRATEX
Professional Cured-In-Place wet out services built on 25 years of experience!

20520 Unico Road
McKenney, VA 23872
804.451.3667
www.FerraTex.com

LINER INSTALLATION LICENSE

Date: January 3, 2015

This is to certify that Nu-Line Technologies, LLC is a licensed CIPP installer of the FerraTex Liner. FerraTex is a subsidiary of Spiniello Companies and has 25 years' experience of liner manufacturing in the United States. FerraTex Liners are manufactured in accordance with the specifications of FerraTex and comply with the requirements of ASTM F1216. FerraTex liners are comprised of Felt and coated felt components from Applied Felts, Non-Woven Solutions, and Haartz Materials. Additionally the liner utilizes a resin from AOC or interplastics with a catalyst system from Akzo Nobel.

Gerhardt Rodenberger
Division Manager, CIPP



By Royal Charter

COPY

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

Applied Felts Inc.
450 College Drive
Martinsville
Virginia
24112
USA

Holds Certificate No:

FM 55735

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

Manufacture of textile products used in pipeline rehabilitation.

For and on behalf of BSI:

Pietro Foschi - Strategic Delivery Director

Originally registered: 08/15/2000

Latest Issue: 03/05/2015

Expiry Date: 05/31/2018

Page: 1 of 1



...making excellence a habit.™



APPLIED FELTS

Applied Felts, Inc. 450 College Drive, Martinsville, Virginia 24112
Telephone (276) 656-1904 Fax: (276) 656-1909
office@appliedfelts.com



Material Health and Safety Data Sheet

EFFECTIVE DATE: APRIL 26, 2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: POLYURETHANE COATED LINER

SUPPLIER: Applied Felts, Inc
450 College Drive
Martinsville, VA 24112

TELEPHONE: (276) 656-1904

FAX: (276) 656-1909

2. COMPOSITION/INFORMATION ON INGREDIENTS

COATING: Thermoplastic Polyurethane Polymer
SUBSTRATE: Polyethylene Terephthalate Felt

3. HAZARDS IDENTIFICATION

HAZARDS DESIGNATION: Not Classified as a Hazardous Material.
POTENTIAL HEALTH HAZARDS: During decomposition or combustion, the product can cause irritation to eyes, skin, or respiratory tract. As a delayed effect, sensitization to isocyanates may occur.

4. FIRST AID MEASURES

INHALATION: No effects anticipated
INGESTION: No effects anticipated
SKIN: No effects anticipated
EYES: No effects anticipated



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 Telephone (276) 656-1904 Fax: (276) 656-1909
 office@appliedfelts.com



5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Water, Foam, Dry Chemical
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Dioxide (CO ²), Carbon Monoxide (CO), Hydrogen Cyanide (HCN), Oxides of Nitrogen, Hydrocarbons and Diisocyanate
SPECIAL PROTECTIVE EQUIPMENT:	Positive pressure self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP METHODS:	N/A
--------------------------------	-----

7. HANDLING AND STORAGE

USAGE PRECAUTIONS:	N/A
STORAGE PRECAUTIONS:	N/A

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

PROTECTIVE EQUIPMENT	
VENTILATION:	N/A
RESPIRATORS:	N/A
PROTECTIVE GLOVES:	N/A
EYE PROTECTION:	N/A
GENERAL PROTECTIVE AND HYGIENIC MEASURES:	Standard industry safety and hygiene principles should be exercised

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Polyurethane coated liner
COLOR:	White
ODOR:	Faint
MELT POINT – FELT	260° C
MELT POINT – COATING	> 177° C
DENSITY – FELT	150 – 200 Kg/m ³
DENSITY – COATING	1100 – 1300 Kg/m ³
FLAMMABILITY	N/A



APPLIED FELTS

Applied Felts, Inc. 450 College Drive, Martinsville, Virginia 24112
Telephone (276) 656-1904 Fax: (276) 656-1909
office@appliedfelts.com



10. STABILITY AND REACTIVITY

STABILITY:	Normally Stable
CONDITIONS/MATERIALS TO BE AVOIDED:	Excessive heat, Organic solvents
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Dioxide (CO ²), Carbon Monoxide (CO), Hydrogen Cyanide (HCN), Oxides of Nitrogen, Hydrocarbons and Diisocyanate, are all anticipated at levels above trace
FIRE CREATES:	

11. TOXICOLOGICAL INFORMATION

HEALTH WARNINGS:	No health risk at ambient temperatures. Elevated temperatures may cause this product to emit irritating vapors
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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS:	Not biologically degradable. Bioaccumulation improbable Generally not hazardous to water
-------------------------------	--

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of waste by incineration or in landfill in accordance with local regulations
--------------------------	--

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS CARGO

15. REGULATORY INFORMATION

DESIGNATION ACCORDING TO EUROPEAN COMMISSION GUIDELINES:	No known regulations related to this product. Observe the local safety regulations for handling chemicals.
---	---



Applied Felts, Inc. 450 College Drive, Martinsville, Virginia 24112
Telephone (276) 656-1904 Fax: (276) 656-1909
office@appliedfelts.com



16. OTHER INFORMATION

This data is based on our present knowledge. However, they shall not be constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

NFPA® HAZARD RATING

HEALTH:	1	Slight
FIRE:	1	Slight
REACTIVITY	0	Minimal

HMIS® HAZARD RATING

HEALTH:	1	Slight
FIRE:	1	Slight
PHYSICAL:	0	Minimal

SUPERSEDES MSDS DATED: JUNE 4, 2008

Product Information

Vipel® Isophthalic Based Resin for Underground Sewer Pipe Liners

TYPICAL LIQUID RESIN PROPERTIES*(1) Vipel® L704-NET-11 see back page

	Nominal
Viscosity @ 77°F/25°C, RVF Brookfield	
Spindle #4 @ 20 RPM, cps.	5,600
Thix Index 2/20	4.3
Color	Opaque
Specific Gravity @ 77°F/25°C	1.11
Non-Volatiles, %	62
Gel Time @ 140°F with (1.0% Di-(4-tert-butyl-cyclohexyl) peroxydicarbonate and 0.5% Trigonox® KSM), minutes	11
Pot Life @ 77°F/25°C (1% Di-(4-tert-butyl-cyclohexyl) peroxydicarbonate and + 0.5% Trigonox® KSM), hours	40

Trigonox is a trademark of Akzo Nobel Chemicals

TYPICAL CAST MECHANICAL PROPERTIES* (2) see back page

		Test Method
Tensile Strength, psi/MPa	13,500/93.1	ASTM D 638
Tensile Modulus, psi/GPa	600,000/4.1	ASTM D 638
Tensile Elongation, %	3.0	ASTM D 638
Flexural Strength, psi/MPa	23,300/161	ASTM D 790
Flexural Modulus, psi/GPa	630,000/4.3	ASTM D 790
Heat Distortion Temperature, °F/°C @ 264 psi	212/100	ASTM D 648
Barcol Hardness	40	ASTM D 2583

*Typical properties are not to be construed as specifications.



DESCRIPTION

The Vipel® L704-NET-11 is a high molecular weight isophthalic/unsaturated polyester resin. Vipel® L704-NET-11 Series provides the corrosion resistance, durability and toughness that is required for cured in place pipe applications. Refer to the AOC Corrosion Resistant Resin Guide for corrosion resistance information listed under Vipel® F701.

FEATURES

- Excellent catalyzed pot life
- Superior mechanical properties
- High molecular weight
- High viscosity version

BENEFITS

Adaptability

AOC's Vipel® L704-NET-11 molecular architecture provides an excellent balance of corrosion and physical properties.

Vipel® L704-NET-11 Polyester Resin

PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 1.0% - 3.0% of the total resin weight.

B. Maintaining shop temperatures between 65°F/ 18°C and 90°F/32°C and humidity between 40% and 90% will help the fabricator make a high quality part. Consistent shop conditions contribute to consistent gel times.

STORAGE STABILITY

Resins are stable for three months from date of production when stored in the original containers away from sunlight at no more than 77°F/25°C. After extended storage, some drift may occur in gel time.

During the hot summer months, no more than two months stability at 86°F/30°C should be anticipated.

SAFETY

See appropriate Material Safety Data Sheet for guidelines.

ISO 9001:2000 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2000 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

FOOTNOTES

(1)

The pot life times shown are typical but may be affected by catalyst, promoter and inhibitor concentrations in resin, and environmental temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and fillers can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.

(2)

Based on tests on Vipel™ L704-NET-11 pipe at 77°F/25° and 50% relative humidity. Castings were prepared using 1.0% Perkadox 16 and 0.5 Trigonox C.

The information contained in this data sheet is based on laboratory data and field experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of its use. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing each such product before committing to production.

Our recommendations should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.



950 HIGHWAY 57 EAST
COLLIERVILLE, TN 38017
www.aoc-resins.com

NORTH AMERICA
Tel: 001(901) 854-2800
Fax: 001 (901) 854-7277
sales@aoc-resins.com

**ASIA, MIDDLE EAST
& LATIN AMERICA**
Tel: 001 (863) 815-5016
Fax: 001 (863) 815-4733
international@aoc-resins.com

EUROPE
Tel: (44) 1473 288997
Fax: (44) 1473 216080
europe@aoc-resins.com



**ASTM F1216 TEST RESULTS ON L704 SERIES
ONE MONTH RESULTS AT 77°F**

	L704 (Isophthalic)	REQUIREMENTS %	PASS OR FAIL
CONTROL SAMPLE			
FLEXURAL STRENGTH, psi	9,544		
STANDARD DEVIATION	252		
FLEXURAL MODULUS, psi	564,989		
STANDARD DEVIATION	15,329		
TAP WATER			
FLEXURAL STRENGTH, psi	10,915		
STANDARD DEVIATION	432		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	563,496		
STANDARD DEVIATION	10,993		
% FLEXURAL MODULUS RETENTION	100	>80	PASS
5% NITRIC ACID			
FLEXURAL STRENGTH, psi	10,672		
STANDARD DEVIATION	894		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	528,173		
STANDARD DEVIATION	13,842		
% FLEXURAL MODULUS RETENTION	100	>80	PASS
10% PHOSPHORIC ACID			
FLEXURAL STRENGTH, psi	10,301		
STANDARD DEVIATION	1,439		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	552,544		
STANDARD DEVIATION	9,333		
% FLEXURAL MODULUS RETENTION	98	>80	PASS
10% SULFURIC ACID			
FLEXURAL STRENGTH, psi	12,438		
STANDARD DEVIATION	620		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	545,889		
STANDARD DEVIATION	6,319		
% FLEXURAL MODULUS RETENTION	97	>80	PASS
AMOCO GASOLINE			
FLEXURAL STRENGTH, psi	9,209		
STANDARD DEVIATION	1278		
% FLEXURAL STRENGTH, psi RETENTION	97	>80	PASS
FLEXURAL MODULUS, psi	567,531		
STANDARD DEVIATION	4,611		
% FLEXURAL MODULUS RETENTION	100	>80	PASS

VEGETABLE OIL			
FLEXURAL STRENGTH, psi	11,809		
STANDARD DEVIATION	2,484		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	549,755		
STANDARD DEVIATION	27,235		
% FLEXUARAL MODULUS RETENTION	97	>80	PASS
0.1% DETERGENT			
FLEXURAL STRENGTH, psi	8,073		
STANDARD DEVIATION	1,732		
% FLEXURAL STRENGTH, psi RETENTION	85	>80	PASS
FLEXURAL MODULUS, psi	511,284		
STANDARD DEVIATION	15,837		
% FLEXUARAL MODULUS RETENTION	91	>80	PASS
0.1% SOAP			
FLEXURAL STRENGTH, psi	11,756		
STANDARD DEVIATION	325		
% FLEXURAL STRENGTH, psi RETENTION	100	>80	PASS
FLEXURAL MODULUS, psi	549,192		
STANDARD DEVIATION	11,869		
% FLEXURAL MODULUS RETENTION	97	>80	PASS

August 1, 1999

The information contained in this data sheet is based on laboratory data and field experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of its use. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing any application before committing to production. Our recommendation should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.

<p>WHMIS (Canada)</p>  <p>B-2 D-2A D-2B</p>	<p>NFPA (USA)</p> <p>Fire: 3, Health: 2, Reactivity: 2</p>  <p>Specific hazard</p>	<p>HMIS (USA)</p> <table border="1"> <tr> <td>Health hazards</td> <td>* 2</td> </tr> <tr> <td>Flammability</td> <td>3</td> </tr> <tr> <td>Physical hazards</td> <td>2</td> </tr> <tr> <td>Personal protection</td> <td>X</td> </tr> </table>	Health hazards	* 2	Flammability	3	Physical hazards	2	Personal protection	X	<p>Protective clothing</p> 
Health hazards	* 2										
Flammability	3										
Physical hazards	2										
Personal protection	X										

Section 1. Chemical product and company identification

Trade name	L704-NET-11	
Product type	Polyester Resin Solution	
Chemical family	Aromatic.	
Material uses	Used in the manufacture of thermoset plastic parts.	
Manufacturer	AOC, LLC 950 Highway 57 East Collierville, TN U.S.A. 38017 Website: www.aoc-resins.com Phone Number: (901) 854-2800 8am-5pm (Central Time) Mon-Fri	<p>In case of emergency</p> <p>CHEMTREC (US): 24 hours/7 days (800) 424-9300 CANUTEC (Canada): 24 hours/7 days (613) 996-6666</p>

Section 2. Hazards identification

OSHA status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	Eye contact, Skin contact, Inhalation, Ingestion
Potential acute health effects	<p>Eyes: Severe eye irritant which may result in redness, burning, tearing and blurred vision.</p> <p>Skin: Skin irritant which may result in burning sensation. Repeated or prolonged skin contact may cause dermatitis.</p> <p>Ingestion: Ingestion may result in mouth, throat and gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p>Inhalation: Inhalation of spray mist or liquid vapors may cause upper respiratory irritation and possible central nervous system effects including headaches, nausea, vomiting, dizziness, drowsiness, loss of coordination, impaired judgement and general weakness.</p>
Potential chronic health effects	<p>CARCINOGENIC EFFECTS: Styrene: Classified A4 (not classifiable for human or animal) by ACGIH. Classified 2B (possible for human) by IARC. An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic to humans. Lung effects have been observed in mouse studies following repeated exposure.</p> <p>Silica, Amorphous: Classified 3 (not classifiable for human) by IARC.</p> <p>MUTAGENIC or TERATOGENIC EFFECTS: No known effect according to our database.</p>

Section 3. Composition/information on ingredients

Name	CAS #	% by weight
1) Styrene	100-42-5	40.7
2) Silica, Amorphous	7631-86-9	1 - 5

Section 4. First aid measures

Eye contact	Flush with a continuous flow of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. Seek medical attention.
Skin contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
Inhalation	Move the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Seek immediate medical attention.

Section 5. Fire-fighting measures

The product is:	Flammable liquid, Class IC.
Auto-ignition temperature	914°F(490°C) Styrene
Flash point	87.6°F (31°C) Styrene
Flammable limits	Lower: 0.9% Upper: 6.8% (Styrene)
Products of combustion	May produce carbon monoxide, carbon dioxide, and irritating or toxic vapors, gases or particulate.
Fire hazard	Flammable in the presence of open flames, sparks, or heat.
Explosion hazard	Can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Material may polymerize when container is exposed to heat (fire) and polymerization will increase pressure in a closed container which may cause the container to rupture violently.
Fire-fighting media and instructions	SMALL FIRE: Use carbon dioxide, foam, dry chemical or water fog to extinguish. LARGE FIRE: Evacuate surrounding areas. Use carbon dioxide, foam, dry chemical or water fog to extinguish. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Prevent run off to sewers or other water ways.

Section 6. Accidental release measures

Small spill	Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	Stop leak if without risk. Eliminate all ignition sources. Contain with an inert material, recover as much as possible and place the remainder in an appropriate waste disposal container. Warn unauthorized personnel to move away. Prevent entry into sewers or confined areas.

Section 7. Handling and storage

Handling	WARNING! Use only in well-ventilated areas. Store away from direct sunlight. Avoid inhalation and contact with eyes, skin, and clothing. Wear appropriate personal protective equipment for your task. Ground and bond all containers when transferring the material. Empty containers may retain product and product vapor. Do not expose to heat, flame, sparks or other ignition sources such as cutting, welding, drilling, grinding or static electricity. Do not pressurize. Provide adequate safety showers and eyewashes in the area of use. Note: If product contains metal compounds (Section III), avoid dust from dried product or grinding of articles made from this material.
Storage	Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Containers should be grounded.

Section 8. Exposure controls/personal protection

Exposure limits	<p>Styrene</p> <p>Silica, Amorphous</p> <p>While the federal workplace exposure limit for styrene is 100 ppm, OSHA accepted the styrene industry's proposal to voluntarily meet a PEL of 50 ppm on an 8 hours TWA.</p>	<p>ACGIH TLV (United States, 2/2010). Absorbed through skin. TWA: 20 ppm 8 hour(s). TWA: 85 mg/m³ 8 hour(s). STEL: 40 ppm 15 minute(s). STEL: 170 mg/m³ 15 minute(s).</p> <p>OSHA PEL Z2 (United States, 11/2006). TWA: 100 ppm 8 hour(s). CEIL: 200 ppm AMP: 600 ppm 5 minute(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 50 ppm 10 hour(s). TWA: 215 mg/m³ 10 hour(s). STEL: 100 ppm 15 minute(s). STEL: 425 mg/m³ 15 minute(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 6 mg/m³ 10 hour(s).</p>
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide adequate safety showers and eyewashes in the area of use.	
Personal protection	<p>Personal protective equipment may vary depending on the job being performed.</p> <p>Eye/face: Wear eye protection such as safety glasses with side shields, splash goggles or face shield with safety glasses.</p> <p>Skin: Avoid skin contact. Impervious gloves should be worn. Other items may include long sleeves, lab coats, or impervious jackets.</p> <p>Respiratory: Determine if airborne concentrations are below the recommended exposure limits in accordance your company's PPE program and regulatory requirements. If they are not, select a NIOSH-approved respirator that provides adequate protection from the concentration levels encountered. Air-purifying respirators are generally adequate for organic vapors. Use positive pressure, supplied-air respirators if there is potential for an uncontrolled release, if exposure levels are unknown, or under circumstances where air-purifying respirators may not provide adequate protection. Reference OSHA 29 CFR 1910.134.</p>	
Personal protection in case of a large spill	Chemical resistant gloves, full protective suit, and boots. Respiratory protection in accordance with OSHA regulation 29 CFR 1910.134. A self-contained breathing apparatus should be used to avoid inhalation of the product vapors.	

Section 9. Physical and chemical properties

Physical state	Liquid.
Color	Clear to Amber.
Odor	Aromatic.
Molecular weight (g/mol)	1000 to 15000
Boiling point	293°F(145°C) Styrene
Melting point	Not available.
pH (1% soln/water)	Not applicable.
Vapor pressure	4.5 mm Hg@ 68°F (20°C) Styrene
Vapor density	3.59 Styrene (Air = 1)
Specific gravity	1.1 (Water = 1)
Water/oil dist. coeff.	Not available.
Evaporation rate	Not available.

Section 9. Physical and chemical properties

Odor threshold	0.14 ppm Styrene
Solubility in water	Slight.
Dispersibility properties	Not dispersed in water.

Section 10. Stability and reactivity

Stability	This product is normally stable, but can become unstable at elevated temperatures and undergo polymerization, which could produce heat and fumes resulting in over-pressurization and rupture in a closed container.
Instability temperature	>170°F (77°C)
Conditions of instability	Heat.
Incompatibility with various substances	Polymerizes in the presence of organic peroxides, oxidizing materials, or heat.
Corrosivity	Our database contains no additional remark on the corrosivity of this product

Section 11. Toxicological information

Toxicity to animals	Name	Result	Species	Dose	Exposure
	Styrene	LD50 Oral	Rat	2650 mg/kg	-
		LC50 Inhalation Vapor	Rat	5634.2 ppm	4 hours
Special remarks on toxicity to animals	Lung effects have been observed in mouse studies following repeated exposure.				
Special remarks on chronic effects on humans	No additional remark.				
Special remarks on other toxic effects on humans	No additional remark.				

Section 12. Ecological information

Ecotoxicity	Toxic to aquatic organisms. Should not be released to sewage system or other bodies of water at concentrations above limits established in regulations or permits.
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Section 13. Disposal considerations

Waste disposal	Recycle to process, if possible. Consult your local or regional authorities. Ignitable characteristic.
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Section 14. Transport information

DOT	UN1866; Resin Solution; 3; III.	Labels 
TDG	UN1866; Resin Solution; 3; III.	
IATA/IMDG	UN1866; Resin Solution; 3; III	
Additional information	US regulations require the reporting of spills when the amount exceeds the Reportable Quantity (RQ) for specific components of this material. See CERCLA in Section 15, Regulatory Information, for the Reportable Quantities.	

Section 14. Transport information**Section 15. Regulatory information****Other regulations**

This section does not reference all applicable regulatory compliance lists.

TSCA: All ingredients are listed or compliant with TSCA.

DSL: All ingredients are listed or compliant with the NSNR.

Proposition 65 Warning: This product contains a chemical(s) known to the State of California to cause cancer, birth defects and/or reproductive harm.

SARA 302 component(s): None.

SARA 313 component(s): Styrene.

CERCLA(RQ): Styrene - 1000 lbs. (453.6 kg)

Section 16. Other information**Prepared by**

AOC, LLC - Corporate Regulatory Affairs.

CA; FL; ON

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CLIENT: AOC
950 Hwy 57 East
Collierville, TN 38017
Attn: Bruce Curry

Re: PO 5061

MATERIAL: One set of fifty rectangular coupons made with 6mm felt impregnated with Vipel™L704 resin were submitted and identified by the client.

TESTING: Chemical Resistance testing per ASTM D5813-95, paragraphs 6.4.1 and 8.2.1 was conducted. Coupons were exposed in accordance with ASTM D543-95 in the solutions shown in the table below at room temperature for a one-year immersion period. Flexural properties testing as described below will be conducted at the conclusion of the immersion period.

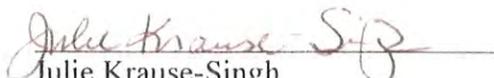
Chemical Solution	Concentration, %
Nitric acid	1
Sulfuric acid	5
ASTM Fuel C	100
Vegetable oil	100
Detergent	0.1
Soap	0.1

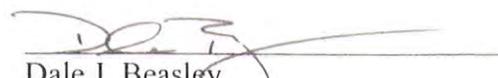
One set of Control coupons was tested for initial flexural properties as reported in Hauser Laboratories Test Report No. M00248A on August 31, 1999. A second set of Control coupons was exposed for one year at 50% Relative Humidity, and 23°C. These coupons were tested on August 9, 2000 along with the exposed coupons. All testing was conducted in accordance with ASTM D790-98, Procedure A using a span-to-depth ratio of 16:1.

RESULTS: The results are summarized in Table 1 and presented in detail in Table 2. All values exceeded the ASTM D5813 requirements of at least 80% retention of flexural modulus after one-year immersion in all solutions.

TESTING SUPERVISED BY:

TESTING CONDUCTED BY:


Julie Krause-Singh
Department Manager


Dale J. Beasley
Technician III

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TABLE 1
SUMMARY OF CHEMICAL RESISTANCE TEST RESULTS

Solution	Average Retention of Flexural Strength*	Average Retention of Flexural Modulus*
	%	%
Nitric Acid	89	96
Sulfuric Acid	103	95
ASTM Fuel C	145	97
Mineral Oil	112	98
Detergent	118	95
Soap	90	94
ASTM D5813 Requirement		80 minimum

*These calculations were based on the data from the Control sample tested 8/9/00.

TABLE 2
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
Vipel™L704		
Control 8/31/99		
1	4570	736000
2	5300	709000
3	5410	686000
4	4680	682000
5	7600	665000
6	8670	726000
7	8560	681000
Average	6400	698000
Std. Dev.	1820	26300
Control 8/9/00		
1	8530	528000
2	5180	548000
3	7750	548000
4	4520	590000
5	5340	586000
6	4530	556000
Average	5980	559000
Std. Dev.	1730	24200
1% Nitric Acid		
1	5580	528000
2	5650	531000
3	5800	543000
4	4400	527000
5	5080	521000
6	5300	555000
Average	5300	534000
Std. Dev.	510	12700

TABLE 2 CONTINUED
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
5% Sulfuric Acid		
1	5820	530000
2	5220	519000
3	5430	520000
4	5750	545000
5	7550	538000
6	6980	537000
Average	6130	531000
Std. Dev.	930	10300
ASTM Fuel C		
1	10300	521000
2	7640	535000
3	4990	536000
4	8490	574000
5	9080	542000
6	11600	560000
Average	8670	545000
Std. Dev.	2280	19200
Mineral Oil		
1	6680	523000
2	5930	509000
3	7790	582000
4	8610	571000
5	5030	566000
6	6290	548000
Average	6720	550000
Std. Dev.	1290	29000

TABLE 2 CONTINUED
 CHEMICAL RESISTANCE TEST RESULTS

Specimen No.	Flexural Strength psi	Flexural Modulus psi
Detergent		
1	7320	529000
2	7690	564000
3	4890	514000
4	7480	536000
5	7000	549000
6	7920	507000
Average	7050	533000
Std. Dev.	1100	21600
Soap		
1	5170	508000
2	5410	517000
3	4600	535000
4	5630	526000
5	4330	520000
6	6980	537000
Average	5350	524000
Std. Dev.	940	11100

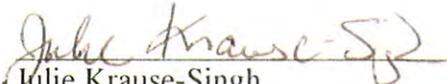
CLIENT: AOC
950 Highway 57 East
Collierville, TN 38017
Attn: Dave Treadwell

MATERIAL: Six each rectangular specimens from two plastic materials identified as felt composites L471 and L704 were submitted by the client. The specimens were each approximately 6 inches x ½ inch x 0.3 inches.

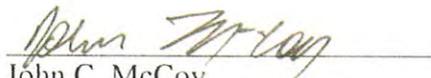
TESTING: Flexural creep testing per ASTM D2990-95 using a three-point static-load configuration with a span to depth ratio of approximately 16:1 and a stress level of 400 psi at 23°C and 50% Relative Humidity.

RESULTS: The results for 10000 hours are presented as both graphical and tabular data of flexural modulus versus time for each group of five specimens tested. Tabular results for sample L471 are presented in Table 1 and tabular results for sample L704 are presented in Table 2

TESTING SUPERVISED BY:


Julie Krause-Singh
Department Manager

TESTING CONDUCTED BY:


John C. McCoy
Technician II

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TABLE 2
 FLEXURAL CREEP DATA
 SAMPLE L704

TEMPERATURE: 23° C/ 50% RH
 STRESS: 400 psi

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
0.00						
0.02	810900	879100	649100	664400	739500	748600
0.10	810900	879100	649100	655900	729500	744900
0.20	798400	879100	641200	631600	710300	732100
0.50	774600	865200	633400	631600	710300	723000
1.00	774600	851700	618500	601900	666400	702600
2.00	741400	838600	604300	588000	666400	687800
3.43	720800	825900	597500	574800	658300	675500
22.08	632900	707900	547700	522000	580400	598200
68.58	625300	681300	505500	491900	550800	571000
114.2	570300	656700	469400	465100	509200	534200
257.4	503900	524100	381000	409300	461400	455900
456.0	439800	514200	378200	362800	412100	421400
792.8	393200	454200	339200	332200	374900	378700
1414.3	368100	436000	326600	321800	350500	360600
1651.6	360400	425800	320600	315800	339500	352400
1802.0	341400	400800	303900	292300	325200	332700
2011.3	339200	400800	303900	292300	323200	331900
2109.6	337000	400800	302200	290700	321300	330400
2154.9	337000	397900	302200	290700	321300	329800
2322.8	332700	397900	302200	289000	317500	327900
2660.8	332700	397900	300400	289000	315700	327100
2808.1	330600	395000	300400	287400	313800	325400
3002.1	330600	395000	300400	287400	313800	325400
3193.5	328500	386600	292100	285800	312000	321000
3312.6	314500	378500	288900	278000	305000	313000
3547.9	310800	373300	282700	272100	301600	308100
3618.8	309800	372100	282700	272100	301600	307700
3834.1	308900	370800	282700	272100	299900	306900
4003.4	307100	370800	282700	272100	299900	306500
4171.3	305300	370800	282700	270700	298200	305500
4513.7	300000	365800	281200	267900	295000	302000

TABLE 2 CONTINUED
 FLEXURAL CREEP DATA
 SAMPLE L704

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
4676.1	298300	365800	279700	266500	295000	301000
5012.2	298300	363400	278200	265100	295000	300000
5186.1	298300	363400	278200	265100	295000	300000
5392.3	296600	361000	278200	262400	293400	298300
5689.7	296600	361000	276700	262400	293400	298000
5901.7	294900	361000	275300	262400	293400	297400
6021.8	294900	361000	273800	262400	291800	296800
6167.8	291600	361000	273800	259700	290200	295300
6331.0	291600	361000	275300	259700	290200	295500
6719.3	291600	358600	273800	259700	290200	294800
7338.3	283600	349400	268200	254500	281100	287400
7507.1	283600	349400	271000	253300	281100	287700
7866.4	285200	349400	266900	254500	282600	287700
8251.8	285200	347200	266900	253300	281100	286700
8376.1	282100	347200	266900	253300	281100	286100
8512.6	282100	347200	266200	253300	281100	286000
9016.1	279800	345000	266900	252000	278200	284400
9261.1	279000	342800	265500	250800	278200	283300
9324.3	278300	342800	265500	250800	276800	282800
9571.7	278300	342800	265500	249600	276800	282600
9911.3	274600	338600	264200	248400	275400	280200
10025.4	274600	338600	264200	248400	275400	280200

FLEXURAL CREEP DATA SAMPLE L704
AT 400 PSI STRESS

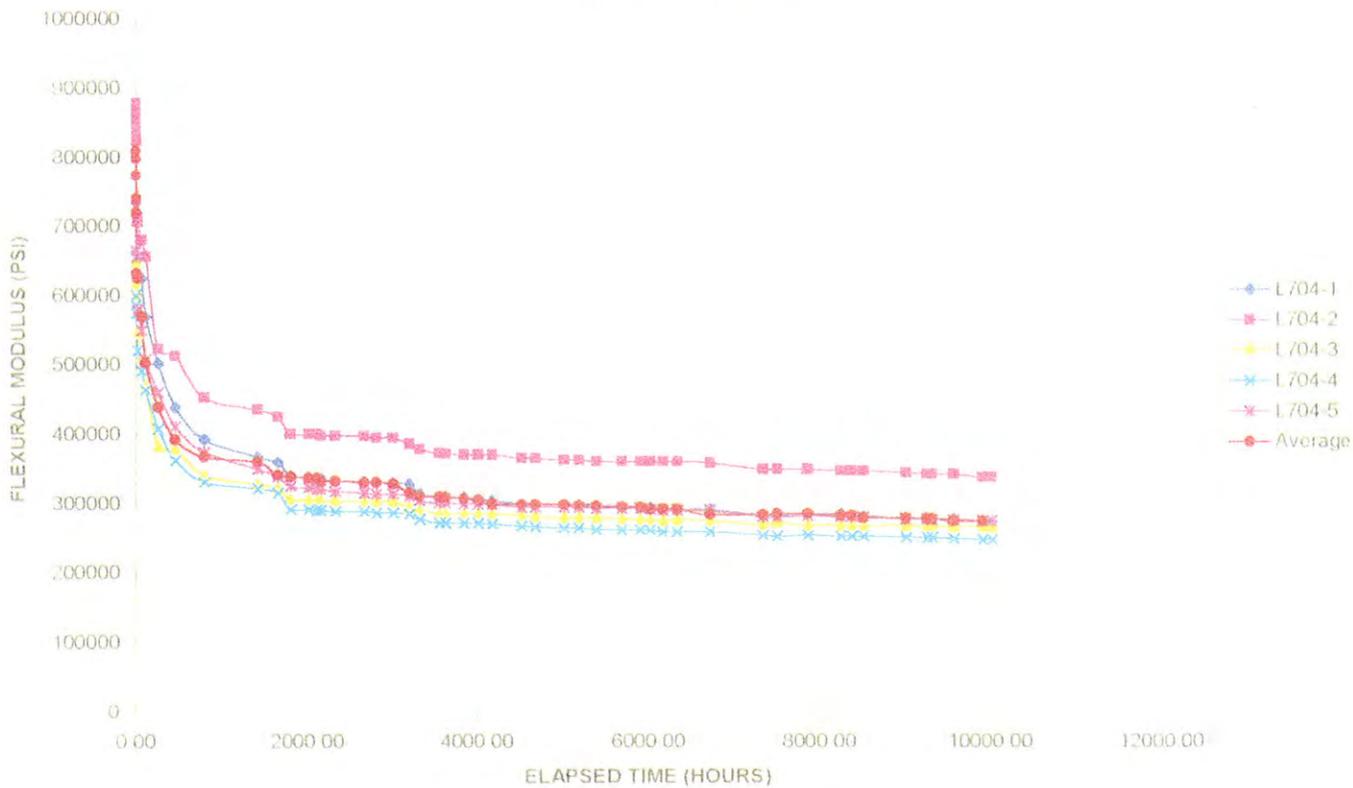


TABLE 1
 FLEXURAL CREEP DATA
 SAMPLE L471

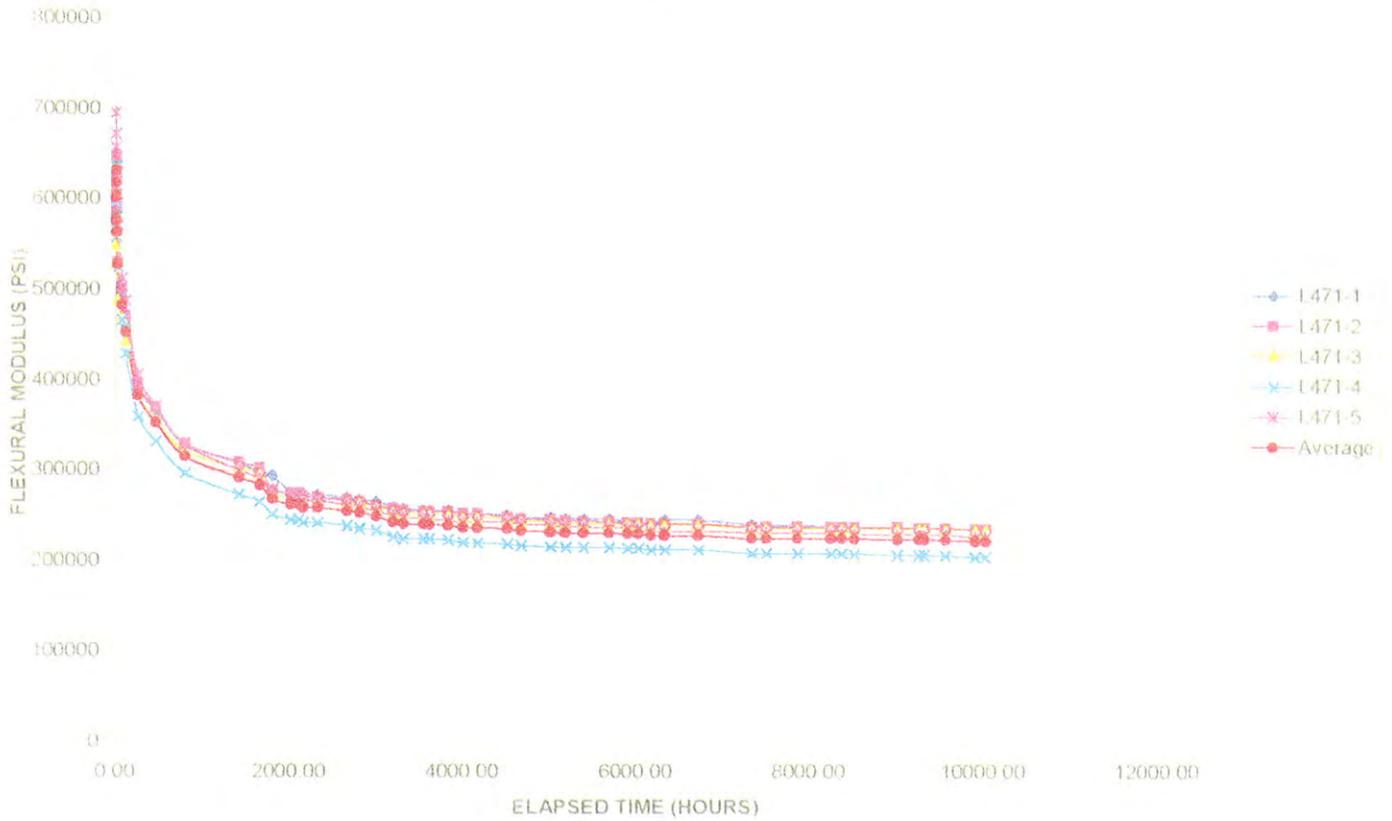
TEMPERATURE: 23° C/ 50% RH
 STRESS: 400 psi

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
0.00						
0.02	643500	648300	562900	635700	696200	631600
0.10	643500	648300	562900	616100	672900	617300
0.20	629900	626200	547800	603600	658300	603300
0.50	623400	626200	547800	597600	658300	601300
1.00	604500	605600	528900	574600	630900	578200
2.00	598400	605600	528900	569100	630900	576300
3.67	586700	592500	524400	558500	605700	562900
22.4	529600	529900	487000	524200	571400	527500
68.8	498700	501000	468400	466900	513300	482800
114.4	460300	471000	441400	429900	488400	453300
257.6	393700	393600	383500	360000	406500	383300
456.3	367100	369800	354700	332000	371600	352700
793.1	328800	330000	319600	297300	329200	315300
1414.6	308500	309600	302300	274100	299800	292100
1651.9	297700	302800	295000	265600	291200	283900
1802.3	294800	278300	272700	252200	280400	268400
2011.5	275800	275500	269100	245900	272800	262600
2109.8	275800	275500	269100	245900	271600	262200
2155.2	274500	271500	266800	242900	266800	258800
2323.0	273300	270100	266773	242900	266800	258800
2661.0	270800	267500	263300	239000	262200	254900
2808.4	268400	266200	263300	236200	259900	253200
3002.4	266000	261200	258900	234400	255500	249600
3193.7	260200	258700	2535500	227200	250300	243700
3312.9	257900	256300	251466	224700	248200	241400
3548.2	256800	255100	250400	224700	247200	240800
3619.0	255700	255100	250400	224700	246200	240400
3834.4	255700	255100	250400	223800	245200	239800
4003.7	252500	252800	247400	221300	243200	237300
4171.6	252500	252800	247400	220500	243200	237100
4513.9	251400	249300	245400	219700	243233	236124

TABLE 1 CONTINUED
 FLEXURAL CREEP DATA
 SAMPLE L471

Elapsed Time Hours	FLEXURAL MODULUS, psi					Average
	1	2	3	4	5	
4676.4	248300	247100	243500	218100	241300	234300
5012.4	248300	246000	241600	216500	239400	232500
5186.3	247300	244900	240600	215700	238400	231600
5392.6	247300	244400	240600	215700	238400	231600
5689.9	247300	243800	240600	215700	237500	231300
5901.9	243300	242800	240600	215000	237500	231000
6022.0	242300	242800	240600	215000	236600	230700
6168.1	241300	241700	239700	213400	233800	229000
6331.3	246300	241700	239700	213400	233800	229000
6719.6	246300	241700	239700	213400	233800	229000
7338.6	241300	238600	236000	209700	232100	225900
7507.4	240300	238600	236000	209700	232100	225900
7866.7	240300	238600	236000	209700	232100	225900
8252.1	239400	238600	236000	209700	232100	225900
8376.3	239400	238600	235991	209700	232100	225909
8512.8	238400	238600	236000	209000	231200	225400
9016.3	237500	238600	236000	208200	230300	224800
9261.4	236500	237500	236000	208200	230300	224800
9324.6	236500	237500	236000	208200	230300	224800
9572.0	236500	237500	235100	207500	230300	224800
9911.6	235600	236500	234600	206100	227700	222800
10025.7	235600	236500	234600	206100	227700	222800

FLEXURAL CREEP DATA SAMPLE L471
AT 400 PSI STRESS





Nu-Line Technologies, LLC Project References – CIPP/SPR

CIPP Project / Description	Owner / Contact	Contract Amount	Date
<u>2014 Wing Ave Flood Control</u> Clean/CCTV & CIPP lining of 159 LF of 18-inch & 24-inch Storm Drain, Flow Diversion.	Flatiron/City of El Cajon 1770 La Costa Meadows Drive San Marcos, Ca 92708 Ruben Claudio (760) 916-9100	\$ 33,030.00	<u>Start</u> 5/15/14 <u>Completion</u> 5/28/2014
<u>2014 Pipeline Rehabilitation Phase W-1</u> CIPP lining of 21,754 LF of 8-inch diameter sanitary sewer. Point Repairs, Manhole Rehabilitation, 425 Top Hats (SLC's) and 425 Lateral Launch Video, 425 4-inch CIPP Lateral Installation.	City of San Diego 525 B Street, Ste. 750 San Diego, CA 92101 Maryam Liaghat (619) 533-5192	\$ 2,465,095.10	<u>Start</u> 6/16/2014 <u>Completion</u> 3/19/2015
<u>2014 Sewer Rehabilitation Project No. 9</u> CIPP lining of 9,166 LF of 8" & 10" diameter sanitary sewer. Clean & CCTV, Bypass Pumping	Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Attn: Jose Pou (626) 458-2191	\$ 232,000.00	<u>Start</u> 9/2/2014 <u>Completion</u> 10/31/2014
<u>2014 Pipeline Rehabilitation Phase X-1</u> CIPP lining of 4,092 LF of 6", 8", 10" & 15" diameter sanitary sewer. Point Repairs, Manhole Rehabilitation, 44 Service Lateral Connections and 44 Lateral Launch Video, 44 CIPP Lateral Installation.	City of San Diego 9485 Aero Drive San Diego, CA 92101 Jericho Gallardo (619) 533-7523	\$ 513,000.00	<u>Start</u> 11/21/2014 <u>Completion</u> 3/16/2015
<u>2014 Sewer Pipeline and Storm Drain Repairs</u> CIPP lining of 3,367 LF of 6", 8" & 18" diameter sanitary sewer & Storm Drain. Point Repairs, Manhole Rehabilitation,	City of Solana Beach 9485 Aero Drive Solana Beach , CA 92075 Taryn Kjolsing (858) 720-2470	\$ 455,414.50	<u>Start</u> 9/22/2014 <u>Completion</u> 11/26/2014
<u>2014 Sewer & Water Group 833</u> CIPP lining of 3,876 LF of 6", 8" and 10" Sanitary Sewer Main Replacement. Point Repairs, Manhole Rehabilitation, Service Lateral Connections, Bypass Pumping.	City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba, (619) 533-5191	\$ 513,000.00	<u>Start</u> 12/1/2014 <u>Completion</u> 1/26/2015
<u>2013 Sewer & Water Group 720</u> CIPP lining of 621 LF of 6-inch, Sanitary Sewer Main Replacement. Point Repairs, Manhole Rehabilitation, Service Lateral Connections, Bypass Pumping	City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba (619) 533-5191	\$ 21,735.00	<u>Start</u> 11/8/2014 <u>Completion</u> 11/8/2014
<u>2013 Sewer & Water Group 758</u> CIPP lining of 2,612 LF of 8-inch and 10,135 LF sanitary sewer replacement. Point Repairs, Manhole Rehabilitation, 30 (SLC's), CIPP Lateral Installation, Bypass Pumping.	City of San Diego 1200 Third Avenue., Ste. 200 San Diego, CA 92101 Luis Schaar, R.E. (619) 533-4641	\$ 81,518.80	<u>Start</u> 5/29/2014 <u>Completion</u> 12/16/2014





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>2015 Sewer & Water Group 815</u> CIPP lining of 545 LF of 8-inch sanitary sewer. Point Repairs, Manhole Rehabilitation, 5 (SLC's), Bypass Pumping.</p>	<p>City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Bijan Shakiba (619)533-5191</p>	<p style="text-align: center;">\$ 29,975.00</p>	<p style="text-align: center;"><u>Completion</u> 2/17/2015</p>
<p><u>City of San Diego Skylark Canyon Rehabilitation</u> CIPP lining of 1,417 LF of 8-inch sanitary sewer. Bypass Pumping.</p>	<p>Weir Construction Corporation 2255 Barham Drive Escondido, Ca 92029 Brian Weir (760) 743-6776</p>	<p style="text-align: center;">\$ 95,215.00</p>	<p style="text-align: center;"><u>Start</u> 12/24/2014 <u>Completion</u> 1/9/2015</p>
<p><u>Back Bay Drive Storm Drain Rehabilitation</u> CIPP/SPR lining of 1,892 LF of 12-inch to 42-Inch storm Drain. Bypass Pumping/Dewatering.</p>	<p>City of Newport Beach 100 Civic Center Drive Newport Beach, CA 92660 Peter Tauscher (949) 644-3309</p>	<p style="text-align: center;">\$ 297,208.80</p>	<p style="text-align: center;"><u>Start</u> 1/19/2015 <u>Completion</u> 4/8/2015</p>
<p><u>Sewer Capital Improvements Project-Lemon Grove</u> CIPP Lining of 3,480 LF of 6-Inch and 8-Inch sanitary Sewer, manhole installations, cleanout installations, bypass pumping.</p>	<p>City of Lemon Grove 3232 Main Street Lemon Grove, Ca 91945 Scott Adamson (858) 413-2400</p>	<p style="text-align: center;">\$ 189,946.00</p>	<p style="text-align: center;"><u>Start</u> 9/28/2015 <u>Completion</u> 10/15/2015</p>
<p><u>Bataquitos Force Main (B1/B2) Force Main</u> <u>City of Leucadia</u> Rehabilitation of 383 LF of 21-Inch sanitary sewer Force Main, Carlsbad Blvd from Proto Drive</p>	<p>Leucadia Wastewater District 1960 La Costa Ave Carlsbad Ca, 92009 Robin Morshita (760) 753-0155</p>	<p style="text-align: center;">\$ 76,500.00</p>	<p style="text-align: center;"><u>Start</u> 5/5/2015 <u>Completion</u> 3/6/2015</p>
<p><u>Annual Sewer Rehabilitation Program CIP. 15701</u> CIPP Lining of 7,702 LF of 6-Inch, 8-Inch, 21-inch and 36-Inch sanitary Sewer and storm drain, manhole installations, cleanout installations, bypass pumping.</p>	<p>City of San Juan Capistrano 32400 Paseo Adelanto San Juan Capistrano CA, 92675 Mike Marquis (949) 443-6326</p>	<p style="text-align: center;">\$ 1,385,061.00</p>	<p style="text-align: center;"><u>Start</u> 8/17/2015 <u>Completion</u> 12/28/2015</p>
<p><u>Pipeline Rehab F-2 (Laterals)</u> Clean & CCTV of 93,955 LF of sanitary sewer.</p>	<p>City of San Diego 525 B Street, MS 908A San Diego, CA 92101 Ryan Reed (619) 533-5191</p>	<p style="text-align: center;">\$ 101,471.00</p>	<p style="text-align: center;"><u>Start</u> 2/15/2015 <u>Completion</u> 8/25/2015</p>
<p><u>Sewer and AC Water Group 752</u> CIPP Lining of 5,182 LF of 8-Inch sanitary Sewer and bypass pumping. Clean & CCTV, Top Hats</p>	<p>Public Utilities Department 9150 Topaz Way, MOC 1 San Diego, CA 92123 Ed M. Cartas (585) 614-4564</p>	<p style="text-align: center;">\$ 281,411.00</p>	<p style="text-align: center;"><u>Start</u> 7/9/2015 <u>Completion</u> 7/17/2015</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p>Sewer and AC Water Group 1004 CIPP Lining of 948 LF of 8-Inch sanitary Sewer and bypass pumping. Clean & CCTV, 14 Top Hats</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Armin Asadyari (858) 997-7989</p>	<p>\$ 70,159.00</p>	<p><u>Completion</u> 9/15/2015</p>
<p>South Oceanside Waterline Replacement Clean & CCTV, Post Video of 5,887 LF 8-Inch New Installation, Manhole Rehabilitation</p>	<p>City of Oceanside 300 North Coast Highway, Oceanside, CA 92054 Greg Keppler (760) 435-5913</p>	<p>\$ 90,092.75</p>	<p><u>Completion</u> 2015</p>
<p>Gravity Pipeline Rehabilitation Clean & CCTV, Post Video of 1,887 LF 6-Inch, 8-Inch and 12-Inch sanitary sewer. Sectional Lining</p>	<p>Leucadia Wastewater District 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 137,987.00</p>	<p><u>Start</u> 7/9/2015 <u>Completion</u> 9/16/2015</p>
<p>Pipeline Rehab Z-1 Clean & CCTV, Post Video of 13,500 LF 8-Inch sanitary sewer, SPR/CIPP Lining of 13,500 LF of 8-Inch sanitary sewer and installation of 300 Top Hats</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Dave Engel (619) 549-5451</p>	<p>\$ 507,079.50</p>	<p><u>Start</u> 10/6/2015 <u>Completion</u> 12/11/2015</p>
<p>Los Angeles County Dept of Public Work – Project #11 SPR/CIPP Lining of 13,842 LF of 8-Inch sanitary Sewer and bypass pumping.</p>	<p>LACDPW 900 South Fremont Avenue Alhambra, California 91803 Tim Bazinet (626) 458-4951</p>	<p>\$ 435,233.50</p>	<p><u>Start</u> 1/18/2016 <u>Completion</u> 2/29/2016</p>
<p>Industry Rd Sewer @ Ha-Hana Rd. CIPP Lining of 748 LF of 24-Inch sanitary Sewer and bypass pumping.</p>	<p>Just Construction 3103 Market Street San Diego, CA 92102 (619) 702-4002</p>	<p>\$ 136,127.00</p>	<p><u>Awaiting</u> <u>NTP</u></p>
<p>CULVERT REPAIR AND REPLACEMENT FISCAL YEAR 2014-15 CIPP/SPR Lining of 499LF of 18-Inch to 42-Inch storm drain culvert.</p>	<p>Tri-Group Construction 9580 Black Mountain Rd Ste. L San Diego, CA 92126 Hani Assi (858) 583-1846</p>	<p>\$ 159,239.00</p>	<p><u>Start</u> 10/5/2015 <u>Completion</u> 11/30/2015</p>
<p>Huntington Beach FY 201415 Sewer Lining Project CIPP Lining of 11,189 LF of 8-Inch sanitary Sewer and bypass pumping.</p>	<p>City of Huntington Beach 2000 Main Street, 1st Floor Huntington Beach, CA 92648 Jose Fuentes (714) 536-5431</p>	<p>\$ 250,000.00</p>	<p><u>Start</u> 3/1/2016 <u>Completion</u> 4/14/2016</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Encinitas 2014-2015 Annual Storm Drain Rehabilitation</u> CIPP Lining of 2,322LF of 12-Inch to 36-Inch storm drain culvert.</p>	<p>City of Encinitas 505 S. Vulcan Encinitas, CA 92024 Kipp Heffner (760) 633-2775</p>	<p>\$ 558,399.00</p>	<p><u>Start</u> 10/5/2015 <u>Completion</u> 3/30/2016</p>
<p><u>Sewer and AC Water Group 840</u> Final main video of 2,098 LF, 8-Inch sewer</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Avram Yu (858) 573-5084</p>	<p>\$ 3,147.00</p>	<p><u>Completion</u> 9/21/2015</p>
<p><u>Sewer Group 798</u> Clean & Video, SPR/CIPP Lining of 11,894LF of 8-Inch sanitary sewer, 164 Service Lateral Connections</p>	<p>City of San Diego 9485 Aero Drive, San Diego, CA 92123 Avram Yu (858) 573-5084</p>	<p>\$ 410,114.30</p>	<p><u>Start</u> 12/15/2015 <u>Completion</u> 2/10/2016</p>
<p><u>2015 Sewer Repair Project - Rossmoor/Los Alamitos</u> Clean & Video, CIPP Lining 2,545 LF of 8-Inch, Point repairs, Top Hats</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 123,124.00</p>	<p><u>Start</u> 3/3/2016 <u>Completion</u> 4/1/2016</p>
<p><u>2015 GRAVITY SEWER REHABILITATION</u> Clean & Video, CIPP Lining 2,237 LF of 6-Inch, 8-Inch and 12-Inch sanitary sewer, 29 Service Lateral Connections, Bypass Pumping</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 161,524.50</p>	<p><u>Start</u> 8/26/2015 <u>Completion</u> 12/23/2015</p>
<p><u>CIPP Lining of 15" & 18" CMP Storm Drain</u> Clean & Video, CIPP Lining 360 LF of 15-Inch and 18-Inch storm drains.</p>	<p>City of Buena Park 6650 Beach Blvd, Buena Park, Ca 90622 Francisco Gutierrez (714)562-3687</p>	<p>\$ 51,991.00</p>	<p><u>Start</u> 3/3/2016 <u>Completion</u> 3/4/2016</p>
<p><u>Storm Drain Lining of 21" to 54"</u> Clean & Video, CIPP Lining 2,415 LF of 18-Inch, 21-Inch, 24-Inch, 30-Inch and 36-Inch storm drains, Sectional Repairs, Invert Grouting of storm drains prior to rehabilitation.</p>	<p>City of Chula Vista 1800 Maxwell Road, Chula Vista, CA 91911 Kalani Camacho (619) 921-2922</p>	<p>\$ 433,391.00</p>	<p><u>Start</u> 1/4/2016 <u>Completion</u> 4/21/2016</p>
<p><u>Storm Drain Lining 2014-15; Project No. 52716</u> Clean & Video, CIPP Lining 2,420 LF of 8-Inch, 10-Inch sanitary sewer, 12-Inch and 18-Inch storm drains, Sectional Repairs, Invert Grouting of storm drains prior to rehabilitation.</p>	<p>City of Fullerton PWD Engineering 303 West Commonwealth Avenue, Fullerton, CA 92832 Vince Oseguera (714) 738-6845</p>	<p>\$ 117,973.00</p>	<p><u>Start</u> 2/22/2016 <u>Completion</u> 4/25/2016</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>The Oaks - CIPP Lining of 36-Inch Storm Drain</u> Clean & CCTV 100 LF of 36-Inch storm Drain, Easement access installation of 100 LF of 36-Inch storm Drain, Post Video</p>	<p>Davidson Communities 1302 Camino Del Mar, Del Mar, CA 92014 Tim O'Grady (858) 259-8500</p>	<p style="text-align: center;">\$ 32,000.00</p>	<p style="text-align: center;"><u>Start</u> 4/29/2016 <u>Completion</u> 4/29/2016</p>
<p><u>Eastern Municipal Water District 12-Inch Sanitary Sewer</u> Clean & CCTV, Rehabilitate 413 LF of 12-Inch Sanitary Sewer, Reinstate 5 Lateral Connections, Bypass Pumping</p>	<p>Eastern Municipal Water District 2270 Trumble Road, Perris, CA 92572-8300 Mark Chamberlin (951) 928-3777</p>	<p style="text-align: center;">\$ 22,715.00</p>	<p style="text-align: center;"><u>Start</u> 2/26/2016 <u>Completion</u> 2/26/2016</p>
<p><u>City of Los Angeles – Sewers 5 Program</u> Clean & CCTV, Rehabilitate 7,147 LF of 8-Inch, 10-Inch, 16-Inch Sanitary Sewer, Reinstate 160 Lateral Connections, Bypass Pumping, Post Video</p>	<p>Mathew & Stewart Co Inc. 2841 Gardena Ave, Signal Hill, CA 90755 Bruce Flowers (562) 595-5471</p>	<p style="text-align: center;">\$ 304,603.00</p>	<p style="text-align: center;"><u>Start</u> 6/17/2015 <u>Completion</u> On Call</p>
<p><u>Rancho Palos Verdes Storm Drain</u> Clean & CCTV 134 LF of 18-Inch storm Drain, Easement access installation of 134 LF of 18-Inch storm Drain, Post Video</p>	<p>Grfco Inc Po Box 1747 Brea, CA 92822 Jim Jackson (714) 412-4712</p>	<p style="text-align: center;">\$ 21,942.50</p>	<p style="text-align: center;"><u>Start</u> 12/30/2015 <u>Completion</u> 12/30/2015</p>
<p><u>City of San Diego Group 703A</u> Clean & CCTV 627 LF of 8-Inch sanitary sewer, Easement access installation of 627 LF of 8-Inch sanitary sewer, Post Video</p>	<p>Weir Construction Corporation 2255 Barham Drive, Escondido, Ca 92029 Allan Weir (760) 743-6776</p>	<p style="text-align: center;">\$ 30,347.50</p>	<p style="text-align: center;"><u>Start</u> 3/8/2016 <u>Completion</u> 3/9/2016</p>
<p><u>La Costa Golf Course</u> Clean & CCTV 360 LF of 10-Inch sanitary sewer, Easement access installation of 360 LF of 10-Inch sanitary sewer, Post Video</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p style="text-align: center;">\$ 18,720.00</p>	<p style="text-align: center;"><u>Start</u> 11/20/2015 <u>Completion</u> 11/20/2015</p>
<p><u>Manning Canyon Sewer and Water Replacement</u> Clean & CCTV 15,508 LF of 8-Inch sanitary sewer, Rehabilitate 2,582 LF of 8-Inch sanitary sewer w/SPR, 56 Sewer Lateral Connections, Post CCTV Video of 15,508 LF, Bypass Pumping</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 212,865.00</p>	<p style="text-align: center;"><u>Start</u> 3/22/2016 <u>Completion</u> 2/28/17</p>
<p><u>SAN DIEGO PIPELINE AC-1</u> Clean & CCTV, Post Video of 40,279 LF 8-Inch sanitary sewer, 889 Lateral Launch Video, SPR/CIPP Lining of 40,279 LF of 6", 8" and 10 -Inch sanitary sewer and installation of 889 Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 1,040,214.00</p>	<p style="text-align: center;"><u>Start</u> 4/4/2016 <u>Completion</u> 10/18/2016</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>SPR Lining of 36-Inch Storm Drain</u> Clean & CCTV 140 LF of 36-Inch Storm Drain under 805 Freeway Southbound Lane, Post Video</p>	<p>SKANSKA, Inc. 5196 Governor Drive, San Diego, California 92122 Keith Jackson (858) 646-0921</p>	<p>\$ 85,089.00</p>	<p><u>Start</u> 5/12/2016 <u>Completion</u> 5/14/2016</p>
<p><u>Sewer Rehabilitation Project No. 13</u> SPR/CIPP lining of 19,943 LF of 8-Inch diameter sanitary sewer, reinstate 459 House connections, Clean & CCTV, Bypass Pumping</p>	<p>Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Joel Zaragoza (626) 458-4973</p>	<p>\$ 476,649.00</p>	<p><u>Start</u> 4/7/2016 <u>Completion</u> 11/8/2016</p>
<p><u>Sewer & Water Group 834</u> Clean & CCTV, Post Video of 8,996 LF 8-Inch sanitary sewer, Lateral Launch Video, SPR Lining of 975 LF of 10", 12" and 14 -Inch sanitary sewer and installation Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 109,284.50</p>	<p><u>Start</u> 3/21/2016 <u>Completion</u> 3/21/2017</p>
<p><u>LACDPW CRR. 436</u> CIPP lining of 598 LF of 18", 36" and 60-Inch diameter storm drain, Clean & CCTV, Spot Repairs, Frame and Cover Installations</p>	<p>Los Angeles Dept. of Public Works 900 South Fremont Ave Alhambra, CA 90014 Fred Kheradvar (626) 458-4973</p>	<p>\$ 297,203.50</p>	<p><u>Start</u> 5/27/2016 <u>Completion</u> 7/13/2016</p>
<p><u>2016 SEWER MAIN CIPP REHABILITATION</u> Clean & CCTV, Post Video of 3,700 LF 6", 8" and 10-Inch sanitary sewer, Traffic Control, Bypass Pumping.</p>	<p>Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Alex Thomas (714) 701-3115</p>	<p>\$ 189,823.00</p>	<p><u>Start</u> 4/14/2016 <u>Completion</u> 7/28/2016</p>
<p><u>SSRP P08 Daly Street & Avenue 26</u> Clean & CCTV, Rehabilitate 5,405 LF of 8-Inch Sanitary Sewer, Reinstale 163 Lateral Connections, Bypass Pumping, Post Video</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 258,160.00</p>	<p><u>Start</u> 12/12/2016 <u>Completion</u> 1/31/2018</p>
<p><u>City of Los Angeles ESRP #SWCO3077 - Avondale</u> Clean & CCTV, Rehabilitate 292 LF of 8-Inch Sanitary Sewer, Reinstale Lateral Connections, Bypass Pumping, Post Video</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 14,600.00</p>	<p><u>Start</u> 6/2/16 <u>Completion</u> 6/2/2016</p>
<p><u>City of Los Angeles ESRP #SW02905 - Avondale</u> Clean & CCTV, Rehabilitate 134 LF of 8-Inch Sanitary Sewer, Reinstale Lateral Connections, Bypass Pumping, Post Video</p>	<p>Williams Pipeline Contractors, PO Box 1120 Somis, CA 93066 John Williams (805) 207-0148</p>	<p>\$ 8,710.00</p>	<p><u>Start</u> 5/17/2016 <u>Completion</u> 5/17/2016</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>SANITARY SEWER MASTER PLAN PHASE 1</u> Clean & CCTV, Post Video of 2,230 LF 8", 10" & 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of South El Monte 1415 Santa Anita Avenue, South El Monte, CA 91733 Aidan Mousavi (626) 652-3110</p>	<p>\$163,798.00</p>	<p><u>Start</u> 6/7/2016 <u>Completion</u> 10/28/2016</p>
<p><u>2016 GRAVITY PIPELINE REHABILITATION PROJECT</u> Clean & CCTV, CIPP Lining of 1,280 LF 8" & 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p>\$ 240,000.00</p>	<p><u>Start</u> 7/28/2016 <u>Completion</u> 12/15/2016</p>
<p><u>Caltrans No. 08-OJ8104</u> Clean & CCTV, SPR & CIPP Lining of 1,160 LF of 18", 24", 30", 36" and 42-Inch Storm Drain, Pipe Repairs, Post Video</p>	<p>Dreambuilder 1324 E. Lawson Ln, Placentia, CA 92870 Anu Singh (714) 646-3697</p>	<p>\$ 311,540.00</p>	<p><u>Start</u> 1/9/2017 <u>Completion</u> 3/3/2017</p>
<p><u>HillTop Area Sewer Lining Project</u> Clean & CCTV, CIPP Lining of 12,956 LF 6", 8", 10" & 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of Redding 777 Cypress Avenue, Redding, CA 96001 Darren Langfield (530) 225-4469</p>	<p>\$ 519,330.00</p>	<p><u>Start</u> 7/5/2016 <u>Completion</u> 9/30/2016</p>
<p><u>Sewer & Water Group 701</u> Clean & CCTV, CIPP Lining of 1,280 LF 8" & 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>City of San Diego 1200 Third Avenue., Ste. 200 San Diego, CA 92101 Luis Schaar, R.E. (619) 533-4641</p>	<p>\$ 27,864.75</p>	<p><u>Start</u> 3/5/2018 <u>Completion</u> 5/7/2017</p>
<p><u>Tyrian St and Soledad Ave and AC Water Main</u> Clean & CCTV, CIPP Lining of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>PK Mechanical Systems, Inc. 21335 Bundy Canyon Road Wildomar, CA 92595 David Spindler (951) 245-5537</p>	<p>\$ 13,164.00</p>	<p><u>Start</u> 3/15/2017 <u>Completion</u> 3/17/2017</p>
<p><u>RFB 7402 San Diego San District</u> Clean & CCTV, sectional Lining and Top Hat Installation, 8" VCP sanitary sewer.</p>	<p>County of San Diego 5560 South Overland Avenue, Suite B, San Diego CA 92123 Jaclyn Smith, (858) 505-6367</p>	<p>\$ 5,850.00</p>	<p><u>Start</u> 7/11/2016 <u>Completion</u> 7/12/2016</p>
<p><u>City of LA ESR 69th & Vermont</u> Clean & CCTV, CIPP Lining of 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p>\$ 13,777.50</p>	<p><u>Start</u> 5/18/2016 <u>Completion</u> 5/19/2016</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

Fresno E. Home Avenue Sewer Rehab Clean & CCTV, CIPP Lining of 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	City of Fresno 2600 Fresno Street, Room 2156 Fresno CA, 93721 Mike Brown (559) 621-1332	\$ 75,255.00	<u>Start</u> 3/15/2017 <u>Completion</u> 6/5/2017
Pacific Beach Pipeline South Video Inspecting 9,000 LF of Pipelines and Culverts for Acceptance.	TC Construction 10540 Prospect Avenue Santee, CA 92071 Elan Schier (619) 820-7811	\$ 41,207.00	<u>Start</u> 4/3/2017 <u>Completion</u> TBD
6-Inch CIPP Lining at U.C.L.A Clean & CCTV, CIPP Lining of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	PipeTec PO Box 2337 Irwindale, CA 91706 Mike Ashker (562) 699-3496	\$ 14,425.00	<u>Start</u> 6/17/2016 <u>Completion</u> 6/17/2016
Mission Trails Collection - Santee 1 Video Inspecting 1,001 LF of Pipelines and Culverts for Acceptance.	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 2,862.00	<u>Start</u> 9/1/2016 <u>Completion</u> (R) <u>11/29/2016</u>
City of El Monte – Sewer Lining Project Clean & CCTV, CIPP Lining of 8-Inch and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	City of El Monte 11333 Valley Blvd El Monte CA 91732 Richard Ruyle (626) 808-1909	\$ 163,098.00	<u>Start</u> 9/27/2016 <u>Completion</u> 11/23/2016
Ross Valley Sanitation Clean & CCTV, CIPP Lining of 22,202 LF of 6-Inch and 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.	Ranger Pipelines 1790 Yosemite Ave. San Francisco, CA 94124 Tom Grover (415) 822-3700	\$ 864,999.50	<u>Start</u> 6/12/2017 <u>Completion</u> 5/1/2018
Via De La Valle bridge in Del Mar, CA Clean & CCTV, CIPP Lining of 10-Inch Ductile Iron Pipe, Traffic Control	PAL General Engineering 10675 Treena Street, Ste. 103 San Diego, CA 92131 Diana Hsu (858) 860-5300	\$ 24,235.50	<u>Start</u> 10/26/2016 <u>Completion</u> 10/26/2016
Pipeline Rehabilitation AM-1 Clean & CCTV, Post Video of 41,127 LF 8-Inch sanitary sewer, 1,127 Lateral Launch Video, SPR/CIPP Lining of 41,127 LF of 8-Inch sanitary sewer and installation of 1,127 Top Hats	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 1,755,384.50	<u>Start</u> 11/15/2016 <u>Completion</u> (R) 9/23/2019





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Fresno Sewer Rehabilitation in Congo and H-Broadway Downtown</u> Clean & CCTV, CIPP Lining of 1,441 LF of 8-Inch and 10-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 114,434.50</p>	<p style="text-align: center;"><u>Start</u> April 2017 <u>Completion</u> 4/15/2018</p>
<p><u>Massachusetts Avenue Sewer Improvements - La Mesa</u> Clean & CCTV, CIPP Lining of 937 LF of 6-Inch, 8-Inch and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>S.C. Valley Engineering, Inc. 656 Front St. El Cajon, CA 92020 Kevin Prescott (619) 444-2366</p>	<p style="text-align: center;">\$ 85,709.81</p>	<p style="text-align: center;"><u>Start</u> 12/12/2016 <u>Completion</u> 2/3/2017</p>
<p><u>Sewer Capital Improvements – Lemon Grove</u> Clean & CCTV, CIPP Lining of 112 LF of 6-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>S.C. Valley Engineering, Inc. 656 Front St. El Cajon, CA 92020 Kevin Prescott (619) 444-2366</p>	<p style="text-align: center;">\$ 10,080.00</p>	<p style="text-align: center;"><u>Start</u> 6/1/2015 <u>Completion</u> (R) 10/31/2017</p>
<p><u>Val Sereno Storm Drain Rehabilitation & Extension</u> Clean & CCTV, CIPP Lining of 143LF of 24-Inch storm drain, clearing and grubbing, Traffic Control, Concrete Headwall, Invert Paving Repairs.</p>	<p>City of Encinitas 505 S. Vulcan Avenue Encinitas, CA 92024 Kipp Hefner (760) 633-2775</p>	<p style="text-align: center;">\$ 49,000.00</p>	<p style="text-align: center;"><u>Start</u> 10/27/2016 <u>Completion</u> 11/7/2016</p>
<p><u>Small Diameter Sewer Rehabilitation - 2017-1</u> Clean & CCTV, CIPP Lining of 143LF of 24-Inch storm drain, clearing and grubbing, Traffic Control, Concrete Headwall, Invert Paving Repairs.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 253,674.00</p>	<p style="text-align: center;"><u>Start</u> 3/1/2017 <u>Completion</u> 3/28/2017</p>
<p><u>Fresno Sewer Rehab & Replace in N Central Downtown</u> Clean & CCTV, CIPP Lining of 857 LF of 6-Inch sanitary sewer, lateral reinstatement.</p>	<p>Bill Nelson GEC, Inc. 2741 E. Malaga Avenue Fresno, CA 93725 Jeff Nelson (559) 439-1756</p>	<p style="text-align: center;">\$ 83,942.59</p>	<p style="text-align: center;"><u>Start</u> 4/5/2017 <u>Completion</u> 5/31/2017</p>
<p><u>Trenchless Repair Replacement & Rehab Los Alamos</u> Clean & CCTV, SPR Lining of 1,450 LF of 8-Inch sanitary sewer, lateral reinstatement.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 106,515.00</p>	<p style="text-align: center;"><u>Start</u> 12/12/2016 <u>Completion</u> 12/16/2016</p>
<p><u>Rehabilitation of 2 Sewer Lift Stations 24th St & Oak St</u> Clean & CCTV, CIPP Lining of 486 LF of 15-Inch sanitary sewer, lateral reinstatement.</p>	<p>GSE Construction Company, Inc. 6950 Preston Avenue Livermore, CA 94551 Alexia Leon (925) 447-0292</p>	<p style="text-align: center;">\$ 53,415.00</p>	<p style="text-align: center;"><u>Start</u> 4/5/2017 <u>Completion</u> 10/17/2017</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<u>Yorba Linda Water District 8in DIP</u> Clean & CCTV, CIPP Lining of 208 LF of 8-Inch Ductile Iron sanitary sewer, lateral reinstatement.	Murrieta Development Inc. 42540 Rio Nedo Rd. Temecula, CA 92590 Bill Estrada (909) 721-0362	\$ 12,376.00	<u>Start</u> 11/16/2016 <u>Completion</u> 11/16/2016
<u>City of Bell - Sewer Modernization Project</u> Clean & CCTV, CIPP Lining of 4,839LF of 8-Inch sanitary sewer, lateral reinstatement.	Tunnelworks Services Inc. 13502-H Whittier Blvd. Ste. 165 Whittier, CA 90605 William Duarte (562) 553-2734	\$ 142,862.75	<u>Start</u> 2/14/2017 <u>Completion</u> 4/10/2017
<u>I-25 South 18-Inch Sanitary Sewer</u> Clean & CCTV, SPR Lining of 550 LF of 18-Inch sanitary sewer, lateral reinstatement.	AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848	\$ 168,440.00	<u>Start</u> 12/15/2016 <u>Completion</u> 3/31/2017
<u>Pipeline Rehabilitation AG-1</u> Clean & CCTV, SPR/CIPP Lining of 35,992 LF of 8-Inch sanitary sewer and installation of 797 Top Hats	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 1,414,852.50	<u>Start</u> 4/3/2017 <u>Completion</u> (R) 4/15/19
<u>Bonillo Drive Storm Drain</u> Cleaning and Video Inspection of 24" Storm Drain	Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822	\$ 2,169.11	<u>Start</u> 2/7/2017 <u>Completion</u> 2/7/2017
<u>Lemon Drive 8-Inch Lining</u> Clean & CCTV, CIPP Lining of 10 LF of 10-Inch sanitary sewer.	Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Diane Dalton (714) 701-3115	\$ 7,385.00	<u>Start</u> 3/10/2017 <u>Completion</u> 3/10/2017
<u>Sunset Lane Easement 8-Inch Lining</u> Clean & CCTV, CIPP Lining of 345 LF of 8-Inch sanitary sewer.	Yorba Linda Water District 1717 E. Miraloma Avenue, Placentia, CA 92870 Diane Dalton (714) 701-3115	\$ 17,424.75	<u>Start</u> 2/27/2017 <u>Completion</u> 2/27/2017
<u>Sierra Madre Rehab Project</u> Clean & CCTV, CIPP Lining of 2,785LF of 8-Inch sanitary sewer.	City of Sierra Madre 232 W. Sierra Madre Blvd Sierra Madre, CA Chris Cimino (626) 335-6615	\$ 150,752.50	<u>Start</u> 4/6/2017 <u>Completion</u> 6/23/2017





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p>City of Pasadena - La Loma Clean & CCTV, CIPP Lining of 140LF of 8-Inch sanitary sewer, Bypass Pumping.</p>	<p>Ramona Inc 302 N 1st Ave Ste 1 Arcadia, CA 91006 Michael Grbavac (626) 355-1350</p>	<p>\$ 12,950.00</p>	<p><u>Start</u> 3/9/2017 <u>Completion</u> 3/9/2017</p>
<p>North Long Beach Sewer Improvement Project Clean & CCTV, CIPP Lining of 4,229LF of 8-Inch, 10-inch and 12-inch sanitary sewer, Bypass Pumping, Traffic Control, Top Hats, Point Repairs.</p>	<p>City of Long Beach 1800 East Wardlow Road, Long Beach, CA 90807 Valeri Karaknov (562) 570-2419</p>	<p>\$ 529,504.35</p>	<p><u>Start</u> 10/2/2017 <u>Completion</u> 12/18/2017</p>
<p>2017 CMP Storm Drain Relining and Point Repair Clean & CCTV, CIPP Lining of 912LF of 12-Inch, 15-inch and 18-inch & 21-Inch storm drain, Point Repairs, Traffic Control,</p>	<p>City of Pasadena 100 N. Garfield Ave, Pasadena, CA 91109 Diego Juarez (626) 744-3921</p>	<p>\$ 201,368.10</p>	<p><u>Start</u> 3/5/2018 <u>Completion</u> (R) 6/21/2018</p>
<p>CalTrans 12-0Q0604 Huntington Beach CA Clean & CCTV, CIPP Lining of 1,100LF of 12-Inch, 18-inch and 24-Inch storm drain, Point Repairs, Traffic Control,</p>	<p>Jabra Contracting 1813 Manzanita Lane, Manhattan Beach, CA 90266 Bob Collins (310) 545-5015</p>	<p>\$ 113,650.00</p>	<p><u>Start</u> 12/4/2017 <u>Completion</u> 11/6/2017</p>
<p>La Mesa 24-Inch Storm Drain CCTV Inspection 24-Inch storm drain</p>	<p>Wayne Pointer 4740 Alta Rica Drive La Mesa, CA 91941 (619) 818-1116</p>	<p>\$ 660.00</p>	<p><u>Start</u> 3/8/2016 <u>Completion</u> 3/8/2016</p>
<p>Water & Sewer Group 954 Clean & CCTV 1,816LF, CIPP Lining of 1,316LF of 8-Inch sanitary sewer, Traffic Control,</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 55,710.00</p>	<p><u>Start</u> 4/25/2017 <u>Completion</u> 11/3/2018</p>
<p>Imperial Beach – Sewer Pump Station 4 & 6 Rehabilitation Clean & CCTV 128LF, CIPP Lining of 128 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control,</p>	<p>NEWest Construction 9235 Trade Pl. Suite A, San Diego, CA 92126 Corey Jennette (858) 436-4880</p>	<p>\$ 14,164.00</p>	<p><u>Start</u> 4/7/2017 <u>Completion</u> 4/13/2017</p>
<p>Goleta West Sanitary District Project #16-04 Clean & CCTV 5,882 LF, SPR & CIPP Lining of 5,882 LF of 6", 8", 10", 12" 15" & 18-Inch sanitary sewer, Bypass Pumping, Traffic Control, Manhole Rehabilitation at various locations.</p>	<p>Goleta West Sanitary District PO Box 4 Goleta, CA 93116 Mark Nation (805) 968-2617</p>	<p>\$ 566,502.00</p>	<p><u>Start</u> 7/27/2017 <u>Completion</u> 12/8/2017</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>CalTrans No. 07-3W1104 Place Pipeliner & Repair Culverts</u> Clean & CCTV, CIPP Lining of 1,400 LF of 18-Inch, 24-inch and 39-Inch storm drain in various locations of San Fernando CA</p>	<p>Jabra Contracting 1813 Manzanita Lane, Manhattan Beach, CA 90266 Bob Collins (310) 545-5015</p>	<p style="text-align: center;">\$ 236,767.50</p>	<p style="text-align: center;"><u>Start</u> 7/10/2017 <u>Completion</u> 9/29/2017</p>
<p><u>San Diego Sewer Group 818</u> Clean & CCTV 133LF, CIPP Lining of 133LF of 6-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Dick Miller Jean Grace (760) 471-6842 ext 13</p>	<p style="text-align: center;">\$ 18,569.75</p>	<p style="text-align: center;"><u>Start</u> 6/18/2018 <u>Completion</u> 10/6/2018</p>
<p><u>San Diego - AC Water & Sewer Group 1017</u> Clean & CCTV 350 LF, CIPP Lining of 350LF of 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 20,650.00</p>	<p style="text-align: center;"><u>Start</u> 10/20/2017 <u>Completion</u> (R) 4/30/2019</p>
<p><u>Lake Arrowhead Shelter Cove Agua-Fria</u> Clean & CCTV 3,170 LF, CIPP Lining of 3,170LF of 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>Lake Arrowhead Community Services District 27307 State Highway 189, Blue Jay, CA Richard Pretzinger (909) 336-7139</p>	<p style="text-align: center;">\$ 325,329.00</p>	<p style="text-align: center;"><u>Start</u> 8/7/2017 <u>Completion</u> 10/31/2017</p>
<p><u>San Diego - AC Water & Sewer Group 955</u> Post Video Inspection 1,796LF various diameters</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 4,041.00</p>	<p style="text-align: center;"><u>Start</u> 3/13/2018 <u>Completion</u> 10/20/2018</p>
<p><u>La Mesa 8-Inch Cast Iron Pipe</u> Clean & CCTV 8" Cast Iron Pipe x 450ft</p>	<p>PSOMAS 401 B Street, Suite San Diego, CA 92101 Sean Diaz (619) 961-2812</p>	<p style="text-align: center;">\$ 4,000.00</p>	<p style="text-align: center;"><u>Start</u> 6/1/2017 <u>Completion</u> 6/30/2017</p>
<p><u>Leucadia 18-Inch Ductile Iron Pipe Rehabilitation</u> Clean & CCTV, Cured In Place Lining and end seal 18" Ductile Iron Pipe</p>	<p>CCL Contracting Inc 1938 Don Lee Pl Escondido, CA 92029 Rod Chilcote (760) 743-2254</p>	<p style="text-align: center;">\$ 39,232.00</p>	<p style="text-align: center;"><u>Start</u> 7/23/2017 <u>Completion</u> 7/26/2017</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Sewer Rehabilitation in N Abby and E Hammond</u> Clean & CCTV 1,714 LF, SPR Lining of 1,714 LF of 20-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control,</p>	<p>City of Fresno 2600 Fresno Street, Room 2015, Fresno, CA 93721 Jesus Gonzales (559) 621-1332</p>	<p style="text-align: center;">\$ 702,673.50</p>	<p style="text-align: center;"><u>Start</u> 3/16/2018 <u>Completion</u> 5/24/2018</p>
<p><u>LACDPW - Project No. 15</u> Clean & CCTV 22,132 LF, SPR & CIPP Lining of 22,132 LF of 8", 10"and 12-Inch sanitary sewer, Bypass Pumping, Traffic Control, Point Repairs at various locations.</p>	<p>LACDPW 900 South Fremont Ave Alhambra, CA 90014 Fred Kheradvar (626) 458-4973 Office</p>	<p style="text-align: center;">\$ 664,667.00</p>	<p style="text-align: center;"><u>Start</u> 10/3/2017 <u>Completion</u> 1/16/2018</p>
<p><u>Beale Air Force Base - Repair Sub Basins 1, 2, 3, 9 and MUNS</u> Clean & CCTV 5,638 LF, CIPP Lining of 5,638 LF of 6", 8", 10"and 12" and 21-Inch sanitary sewer, Bypass Pumping, Traffic Control, Point Repairs at various locations.</p>	<p>Allright Construction Inc 1485 S. Industrial Way Kerman, CA 93630 Steve Martinez (559) 284-3236</p>	<p style="text-align: center;">\$ 522,566.00</p>	<p style="text-align: center;"><u>Start</u> 7/31/2018 <u>Completion</u> 9/29/2018</p>
<p><u>2016-2017 Citywide Annual Sewer Rehabilitation</u> Clean & CCTV 17,980 LF, CIPP Lining of 17,980 LF of 6", 8", 10"and 14-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control, Manhole Rehabilitation Point Repairs at various locations.</p>	<p>City of Encinitas 505 S. Vulcan Avenue Encinitas, CA 92024 Kipp Hefner (760) 633-2775</p>	<p style="text-align: center;">\$ 1,351,415.75</p>	<p style="text-align: center;"><u>Start</u> 11/6/2017 <u>Completion</u> 5/18/2019</p>
<p><u>Monrovia Renewal – Northwest Area Infrastructure Improvements Project</u> Clean & CCTV 6,035 LF, CIPP Lining of 6,035LF of 6"and 8-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control, Manhole Rehabilitation Point Repairs at various locations.</p>	<p>Sully-Miller Contracting, Inc. 135 S. State College Blvd, Brea CA 92821 Jesse Flores (714) 578-9600</p>	<p style="text-align: center;">\$ 335,935.00</p>	<p style="text-align: center;"><u>Start</u> 11/15/2017 <u>Completion</u> (R) 3/31/19</p>
<p><u>Sewer System Repair Project- Montclair CA</u> Clean & CCTV 766 LF, CIPP Lining of 766 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control at various locations.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 John Gavigan (626) 480-1442</p>	<p style="text-align: center;">\$ 31,980.50</p>	<p style="text-align: center;"><u>Start</u> 9/18/2017 <u>Completion</u> 10/9/2017</p>
<p><u>Sewer and AC Water Group 764A</u> Clean & CCTV 7,791 LF, CIPP Lining of 617 LF of 8-Inch sanitary sewer, Bypass Pumping, Traffic Control at various locations.</p>	<p>KTA Construction 821 Tavern Rd. Alpine, CA Adam Ogden (619) 562-9464</p>	<p style="text-align: center;">\$ 46,611.00</p>	<p style="text-align: center;"><u>Start</u> 2/13/2018 <u>Completion</u> 2/15/2019</p>
<p><u>Techite Sewer Replacement, Diversion Structure- Padre Dam</u> Clean & CCTV 390 LF, CIPP Lining of 390 LF of 6-Inch sanitary sewer, Top Hats, Bypass Pumping, Traffic Control at various locations.</p>	<p>Charles King Company 2841 Gardena Avenue Signal Hill, CA 90755 Scott King (562) 426-2974</p>	<p style="text-align: center;">\$ 36,864.00</p>	<p style="text-align: center;"><u>Start</u> 1/24/2018 <u>Completion</u> 3/31/2018</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Sewer Rehabilitation Project 2016/2017</u> Clean & CCTV 8,620 LF, CIPP Lining of 8,620 LF of 8” and 10-Inch sanitary sewer, Top Hats, Bypass Pumping, Point Repairs and Traffic Control at various locations.</p>	<p>City of West Hollywood 5 Hutton Centre Drive, Suite 500 Santa Ana, CA 92707 Kieler Smith (949) 330-4172</p>	<p style="text-align: center;">\$ 861,970.00</p>	<p style="text-align: center;"><u>Start</u> 12/11/2017 <u>Completion</u> 9/22/2018</p>
<p><u>2017 CMP Repairs – City of Poway</u> Clean & CCTV 1,031 LF, CIPP Lining of 1,031 LF of 18” and 24-Inch storm drain, Invert Repairs, Point Repairs and Traffic Control at various locations.</p>	<p>City of Poway 13325 Civic Center Drive Poway, CA 92064 Brian Banzuelo (858) 668-4623</p>	<p style="text-align: center;">\$ 318,244.00</p>	<p style="text-align: center;"><u>Start</u> 11/10/2017 <u>Completion</u> 12/27/2017</p>
<p><u>18-inch Storm Drain Rehabilitation</u> Clean & CCTV 1,308 LF, CIPP Lining of 1,280 LF of 18” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>The Gill Company 28069 Diaz Rd, Suite B Temecula, CA 92590 Darren Gill (951)501-5623</p>	<p style="text-align: center;">\$ 108,191.00</p>	<p style="text-align: center;"><u>Start</u> 12/11/2017 <u>Completion</u> 2/1/2018</p>
<p><u>JOC Task P15S004</u> Clean & CCTV 69 LF, CIPP Lining of 69 LF of 24” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 12,915.00</p>	<p style="text-align: center;"><u>Start</u> 4/26/2018 <u>Completion</u> 4/26/2018</p>
<p><u>Caltrans – Contract No. 08-0Q6804</u> Clean & CCTV 520 LF, CIPP Lining of 520 LF of 18” & 24” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>American Pacific Construction 7161 Citrus Valley Ave Eastvale, CA 92880 Ashish Sehgal (559) 577-9999</p>	<p style="text-align: center;">\$ 130,875.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 4/25/2018</p>
<p><u>Caltrans – Contract No. 08-0Q6904</u> Clean & CCTV 1,810 LF, CIPP Lining of 1,810 LF of 24” and 30” storm drain, invert grouting and Traffic Control at various locations.</p>	<p>United Engineering & Cons., Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 381,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 5/23/2018</p>
<p><u>Lake Helix Sewer Rehabilitation</u> Clean & CCTV 344LF LF, CIPP Lining of 344LF of 8” sanitary sewer, invert grouting and Traffic Control at various locations.</p>	<p>United Engineering & Cons., Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 381,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/1/2018 <u>Completion</u> 5/23/2018</p>
<p><u>FY2016/17 Gravity Sewer Rehabilitation Project</u> Clean & CCTV, CIPP Lining of 24,064 LF of 6-Inch and 8-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Ranger Pipelines 1790 Yosemite Ave. San Francisco, CA 94124 Tom Grover (415) 822-3700</p>	<p style="text-align: center;">\$ 1,072,720.00</p>	<p style="text-align: center;"><u>Start</u> 7/24/2018 <u>Completion</u> 10/30/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Rehabilitate 10-Inch Siphon</u> Clean & CCTV, CIPP Lining of 250 LF of 10-Inch sanitary sewer siphon, Traffic Control, Bypass Pumping.</p>	<p>City of Laguna Beach Water Quality Department 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p style="text-align: center;">\$ 56,625.00</p>	<p style="text-align: center;"><u>Start</u> 12/1/2017 <u>Completion</u> 12/5/2017</p>
<p><u>Culvert Repair and Replacement Fiscal Year 2016-17, Oracle Project No. 1020695</u> Clean & CCTV, CIPP Lining of 721 LF of 18", 24", 30", 42" and 71 x 47-Inch storm drain, Traffic Control and invert repairs.</p>	<p>Tri-Group Construction 9580 Black Mountain Road, Ste L San Diego CA, 92126 Hani Assi (858) 689-0058</p>	<p style="text-align: center;">\$ 262,898.00</p>	<p style="text-align: center;"><u>Start</u> 2/22/2018 <u>Completion</u> 5/30/2018</p>
<p><u>CIPP Lining of 18" CMP Storm Drain & Void Repair</u> Clean & CCTV, CIPP Lining of 100 LF of 18-Inch storm drain, Traffic Control and invert repairs.</p>	<p>City of Buena Park 6955 Aragon Circle Buena Park, Ca 90622 Frank Moore (714) 562-3708</p>	<p style="text-align: center;">\$ 30,000.00</p>	<p style="text-align: center;"><u>Start</u> 12/18/2018 <u>Completion</u> 12/22/2018</p>
<p><u>Regal Road Sewer Main Extension</u> Clean & CCTV 133 LF of 8-Inch sanitary sewer and Traffic Control.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 1,100.00</p>	<p style="text-align: center;"><u>Start</u> 1/18/2018 <u>Completion</u> 1/18/2018</p>
<p><u>Sewer & Water Group -701</u> Clean & CCTV 10,013 LF of 8-Inch sanitary sewer, Rehabilitate 8-inch Sewer, Top Hats and Traffic Control.</p>	<p>Ortiz Corporation 2000 Mc Kinley Avenue National City, CA 91950 Jose Ortiz (619) 434-7925</p>	<p style="text-align: center;">\$ 27,864.00</p>	<p style="text-align: center;"><u>Start</u> 3/5/2018 <u>Completion</u> (R) 6/15/2018</p>
<p><u>Brio & Symphony 12" CIPP</u> Clean & CCTV 336 LF of 12-Inch sanitary sewer, Rehabilitate 12-inch Sewer and Traffic Control.</p>	<p>National Plant Services, Inc. 1461 Harbor Avenue Long Beach, CA 90813 Jeff Garcia (562) 436-7600</p>	<p style="text-align: center;">\$ 26,880.00</p>	<p style="text-align: center;"><u>Start</u> 2/6/2018 <u>Completion</u> 2/6/2018</p>
<p><u>Contract No. 02-4G2504 Replace and Rehabilitate Culverts, and Construct RSP</u> Clean & CCTV 460 LF of 21" & 24-Inch storm drain, Rehabilitate 21" & 24-inch storm drain with SPR.</p>	<p>R. Brown Construction Company, Inc. P.O. Box 406 Willow Creek, CA 95573 Roger Brown (530) 629-3702</p>	<p style="text-align: center;">\$ 154,060.00</p>	<p style="text-align: center;"><u>Start</u> 7/1/2018 <u>Completion</u> 7/28/2018</p>
<p><u>Ceres Trunk Rehabilitation Project No. 2017-23</u> Clean & CCTV 723 LF of 21-Inch sanitary sewer, Rehabilitate 21-inch sanitary sewer with cured in place liner.</p>	<p>Rolfe Construction 3573 Southern Pacific Ave Atwater, CA 95301 Jorge C. Avelar (209) 358-5548</p>	<p style="text-align: center;">\$ 133,241.00</p>	<p style="text-align: center;"><u>Start</u> 3/19/2019 <u>Completion</u> 3/21/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Caltrans 08-0Q6904 Culvert Repair</u> Clean & CCTV 1,810 LF of 24" & 30-Inch storm drain, Rehabilitate 21" & 24-inch storm drain with CIPP, Cement Spray & SPR lining systems.</p>	<p>United Engineering & Construction, Inc., 336 N. Central Ave. 10A Glendale, CA 91203 Reza Fard (818) 662-8055</p>	<p style="text-align: center;">\$ 981,090.00</p>	<p style="text-align: center;"><u>Start</u> 2/21/2018 <u>Completion</u> 6/23/2018</p>
<p><u>FY 2018 Gravity Pipeline CIPP Lining Rehabilitation Project</u> Clean & CCTV 7,410 LF of 8", 12" 14" & 15-Inch sanitary sewer, Point repairs, top hats, manhole rehab.</p>	<p>Leucadia Wastewater Division 1960 La Costa Avenue, Carlsbad, CA 92009 Robin Morishita (760) 753-0155</p>	<p style="text-align: center;">\$ 667,998.00</p>	<p style="text-align: center;"><u>Start</u> 5/21/2018 <u>Completion</u> (R) 7/29/19</p>
<p><u>Renewal South Area Infrastructure Improvements</u> Clean & CCTV 2,850 LF of 6", 8" & 15-Inch sanitary sewer, Point repairs, top hats, sectional lining.</p>	<p>Sequel Contractors, Inc 13546 Imperial Hwy., Santa Fe Springs, CA 90670</p>	<p style="text-align: center;">\$ 215,569.00</p>	<p style="text-align: center;"><u>Start</u> 7/2/2018 <u>Completion</u> 1/17/2019</p>
<p><u>Pipeline Rehabilitation AK-1</u> Clean & CCTV, SPR/CIPP Lining of 29,295 LF of 8-Inch sanitary sewer and installation of 497 Top Hats</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 993,200.00</p>	<p style="text-align: center;"><u>Start</u> 4/25/2018 <u>Completion</u> (R) 7/3/2019</p>
<p><u>Cal State San Bernardino Sewer Lining Quote</u> Clean & CCTV, SPR/CIPP Lining of 380 LF of 6-Inch and 10-Inch sanitary sewer.</p>	<p>W.A. Rasic Construction Company, Inc. 4150 Long Beach Blvd. Long Beach, CA 90807 Keith Fouts (562) 928-6111</p>	<p style="text-align: center;">\$ 35,700.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>City of San Diego - Water and Sewer Group 966</u> Clean & CCTV 3,462LF, SPR/CIPP Lining of 477 LF of 12-Inch sanitary sewer and installation of 2 Top Hats</p>	<p>El Cajon Grading & Engineering Co. Inc P.O. Box 967 Lakeside, Ca 92040 Wendy Frisch (619) 561-9840</p>	<p style="text-align: center;">\$ 49,355.00</p>	<p style="text-align: center;"><u>Start</u> 9/20/2018 <u>Completion</u> 10/29/2018</p>
<p><u>8-Inch Sanitary Sewer Rehabilitation</u> Clean & CCTV 640 LF, CIPP Lining of 640 LF of 8-Inch sanitary sewer and Top Hats</p>	<p>City of Carlsbad 1200 Carlsbad Village Drive Carlsbad, CA 92008 Don Wasco (619) 561-9840</p>	<p style="text-align: center;">\$ 30,665.00</p>	<p style="text-align: center;"><u>Start</u> 6/22/2018 <u>Completion</u> 6/25/2018</p>
<p><u>Lining of IVY Glenn Drive Storm Drain Facilities</u> Clean & CCTV 1,200LF, CIPP Lining of 1,200 LF of 18-Inch storm drain.</p>	<p>City of Laguna Niguel, Public Works Department 30111 Crown Valley Pkwy Laguna Niguel, CA 92677 JC Herrera (949) 362-4337</p>	<p style="text-align: center;">\$ 95,000.00</p>	<p style="text-align: center;"><u>Start</u> 5/2/2018 <u>Completion</u> 6/15/2018</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Country Club Infiltration Project</u> Clean & CCTV 2,620LF, CIPP Lining of 2,620 LF of 18", 24", 36" 42" & 48-Inch storm drain. Point Repairs Dewatering.</p>	<p>City of Coronado 1825 Strand Way, Coronado, CA 92118 Katherine Odiorne (619) 522-2424</p>	<p>\$ 1,370,000.00</p>	<p><u>Start</u> 5/24/2018 <u>Completion</u> 12/21/2018</p>
<p><u>City of San Joaquin - Sewer Collection System Improvements Project</u> Clean & CCTV 17,585 LF of 6', 8", 10", 12" & 16-Inch sanitary sewer, Rehabilitate 17,585 LF various diameters sanitary sewer with cured in place liner.</p>	<p>Rolfe Construction 3573 Southern Pacific Ave Atwater, CA 95301 Jorge C. Avelar (209) 358-5548</p>	<p>\$ 598,972.50</p>	<p><u>Start</u> 8/7/2018 <u>Completion</u> 4/27/2019</p>
<p><u>El Cajon Sewer & Storm Drain Repair & Replacement</u> Clean & CCTV 8,589 LF of 6-inch to 60-Inch sanitary sewer & storm drain, Rehabilitate 8,589 LF various diameters sanitary sewer and storm drain with cured in place liner.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p>\$ 701,604.00</p>	<p><u>Start</u> 6/11/2018 <u>Completion</u> 3/11/2019</p>
<p><u>San Rafael Storm Drain (Lindaro Pump Station)</u> Clean & CCTV 250LF, CIPP Lining of 250 LF of 24-Inch storm drain. Point Repairs Dewatering.</p>	<p>Terra Pacific Group 201 N. Civic Drive, Suite 135 Walnut Creek, CA 94596 Pat Barrese (925) 667-7464</p>	<p>\$ 202,750.00</p>	<p><u>Start</u> 9/24/2019 <u>Completion</u> 9/26/2019</p>
<p><u>Caltrans 12-0Q7504 Culvert Repair</u> Clean & CCTV 1,730 LF of 18", 24" & 30-Inch storm drain, Rehabilitate 18", 24" & 30-inch storm drain with CIPP lining system.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 199,140.00</p>	<p><u>Start</u> 9/17/2018 <u>Completion</u> (R) 1/29/2018</p>
<p><u>Lake Helix Sewer Rehabilitation</u> Clean & CCTV 344 LF of 8 cast-iron sanitary sewer, Rehabilitate with CIPP lining system.</p>	<p>City of La Mesa 8130 Allison Avenue La Mesa CA, 91942 Casey Crown (619) 667-1380</p>	<p>\$ 48,422.00</p>	<p><u>Start</u> 7/17/2018 <u>Completion</u> 8/31/2018</p>
<p><u>Sanitary Sewer Rehab and Replacement Prgm Project</u> <u>1</u> Clean & CCTV 10,594 LF of 8", 10" & 12" sanitary sewer, UV Sectionals & Top Hats, Rehabilitate with CIPP lining system.</p>	<p>City of Long Beach 333 W. Ocean Blvd/7th Floor Long Beach, CA 90802 Valeri Karakanov (562) 570-2331</p>	<p>\$ 575,000.00</p>	<p><u>Start</u> 10/9/2018 <u>Completion</u> (R) 3/27/2019</p>
<p><u>RFP - Sewer Cured in Place Pipe Repairs 2018</u> Clean & CCTV 3,308 LF of 8" & 10" sanitary sewer, Top Hats, Rehabilitate with CIPP lining system.</p>	<p>Padre Dam Municipal Water District 9300 Fanita Parkway Santee, CA 719003 (619) 258-4635</p>	<p>\$ 200,003.00</p>	<p><u>Start</u> 9/27/2018 <u>Completion</u> (R) 5/14/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Santa Barbara – Anacapa St 8” Emergency</u> Clean & CCTV 290 LF of 8” sanitary sewer. Rehabilitate with SPR lining system.</p>	<p>City of Santa Barbara Public Works 630 Garden Street Santa Barbara, CA 93101 Bradley Rahrer (619) 258-4635</p>	<p>\$ 36,270.00</p>	<p><u>Start</u> 6/19/2018 <u>Completion</u> 6/19/2018</p>
<p><u>CalTrans 07-3W9704 -105 Freeway</u> Clean & CCTV 1,320 LF of 18”, 24”, 30” & 36” CMP storm drain. Rehabilitate with CIPP lining system.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 227,790.00</p>	<p><u>Start</u> 8/7/2018 <u>Completion</u> 11/17/2018</p>
<p><u>2018 Sewer Main Rehabilitation Project</u> Clean & CCTV 14,425 LF of 8” & 10” rehabilitate sanitary sewer with CIPP lining system.</p>	<p>Ojai Valley Sanitary District 1072 Tico Road Ojai , CA 93023 Jon Turner (805) 658-6800</p>	<p>\$ 425,000.00</p>	<p><u>Start</u> 10/8/2018 <u>Completion</u> 4/20/2019</p>
<p><u>CIP 18-100 CIPP Lining of Sanitary Sewer System</u> Clean & CCTV 30,480 LF of 6”, 8”, 10”, 15” & 18” rehabilitate sanitary sewer with CIPP lining system.</p>	<p>City of Laguna Beach 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p>\$ 1,259,748.00</p>	<p><u>Start</u> 9/6/2018 <u>Completion</u> (R) 10/22/2019</p>
<p><u>Summerland Emergency 8” Cast Iron Repair</u> Clean & CCTV 150 LF of 8”, rehabilitate sanitary sewer with SPR lining system.</p>	<p>CUSHMAN CONTRACTING CORP. P.O. Box 147 Goleta, California Blair Cushman (805) 964-8661</p>	<p>\$ 30,025.00</p>	<p><u>Start</u> 8/27/2018 <u>Completion</u> 8/28/2018</p>
<p><u>ESR City of Los Angeles - Bonnie Brae</u> Clean & CCTV 110 LF of 8” sanitary sewer with CIPP lining system.</p>	<p>Pipe Tec 5103 Elton Street Baldwin Park, CA 91706 Tom Vukojevic (626) 222-1998</p>	<p>\$ 19,060.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>Palisades Slip Lining Phase 2</u> Clean & CCTV 2,348 LF of 6” sanitary sewer. Rehabilitate with CIPP lining system and install new manhole structures & cleanouts.</p>	<p>Lake Arrowhead Comm. Services PO Box 700 Lake Arrowhead, CA 92352 Scott Schroeder (909) 336-7136</p>	<p>\$ 366,930.00</p>	<p><u>Start</u> 10/30/2018 <u>Completion</u> 1/15/2019</p>
<p><u>AC Water & Sewer Group 1018</u> Clean & CCTV 1,000 LF of 8” sanitary sewer. Rehabilitate 1,953 with CIPP lining system and install UV Top Hats.</p>	<p>Orion Construction Corp. Rob Wilson (760) 597-9660</p>	<p>\$ 192,402.50</p>	<p><u>Start</u> 3/21/2019 <u>Completion</u> 4/8/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<u>City of Vista - Pilot Project Information</u> Clean & CCTV 329 LF of 8" sanitary sewer. Rehabilitate with SPR lining system.	City of Vista 200 Civic Center Drive Vista CA 92804 Elmer Alex (760) 726-1340	\$ 15,802.00	<u>Start</u> 10/18/18 <u>Completion</u> 10/18/18
<u>Fulton Road Rehab</u> Clean & CCTV 1,592 LF of 8" sanitary sewer. Rehabilitate with CIPP & SPR lining systems.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 200,525.00	<u>Start</u> 6/2/2018 <u>Completion</u> 8/13/18
<u>JOC - Sewer Rehab Phase AT-1</u> Clean & CCTV 39,685 LF of 8" sanitary sewer. Rehabilitate with CIPP & SPR lining systems, install 1,023 UV Top Hats & Post Video.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 1,907,764.00	<u>Start</u> 12/28/2018 <u>Completion</u> 10/31/2019
<u>CMP Rehabilitation FY 2017-18 Measure P</u> 20,659 LF of 18" to 54" CMP Storm Drain Repairs. Rehabilitate with CIPP & SPR lining systems.	Spiniello Companies 2650 Pomona Blvd. Pomona, CA 91768 Abby De La Cruz (562) 305-5219	\$ 1,984,764.00	<u>Start</u> 2/14/19 <u>Completion</u> 10/30/2019
<u>LACSD Belvedere Trunk Sewer Rehabilitation</u> 10,260 LF of 15", 21" & 24" sanitary sewer. Rehabilitate with CIPP lining systems.	Spiniello Companies 2650 Pomona Blvd. Pomona, CA 91768 Eugenio Mateo (562) 458-7757	\$ 1,248,340.00	<u>Start</u> 1/2/19 <u>Completion</u> 3/19/19
<u>SKF Gilroy 18th Avenue Sewer Project</u> 797 LF of 12", 14" & 18" sanitary sewer. Rehabilitate with SPR lining systems.	Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188	\$ 155,713.00	<u>Start</u> 12/8/2018 <u>Completion</u> (R) 10/18/2019
<u>Santa Monica - FY 17/18 Annual Wastewater Main Improvements</u> Clean & CCTV 2,135 LF of 8" sanitary sewer. Rehabilitate with CIPP lining system, install UV Top Hats.	Mike Prlich & Sons Inc. 5103 Elton St Baldwin Park, CA 91706 Lonny Lavin (626) 813-1700	\$ 156,265.00	<u>Start</u> TBD <u>Completion</u> TBD
<u>Vellicitos Rock Springs Sewer Replacement</u> Clean & CCTV 2,701 LF of 8", 12" & 15" sanitary sewer. Rehabilitate 303 LF with CIPP lining system.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 20,814.00	<u>Start</u> 3/22/2019 <u>Completion</u> (R) 10/2/2019





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>JOC - Sewer Rehab Phase AO-1</u> Clean & CCTV 42,800 LF of 8", 10" & 12" sanitary sewer. Rehabilitate with CIPP & SPR lining systems, install 413 UV Top Hats & Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 1,332,009.00</p>	<p><u>Start</u> 4/25/19 <u>Completion</u> On-Going</p>
<p><u>Caltrans – State Minor B, Solicitation No. 10A2041</u> Clean & CCTV 85 LF of 18" & 30" storm drain. Rehabilitate with CIPP lining systems, install 85LF & Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 62,850.00</p>	<p><u>Start</u> 6/11/19 <u>Completion</u> 9/30/2019</p>
<p><u>(SSRP) H31 Beachwood Drive & Scenic Avenue</u> Clean & CCTV 12,419 LF of 6" & 8" sanitary sewer. Rehabilitate with CIPP lining systems, install 12,419 LF, Top Hats & Post Video.</p>	<p>Vasilj Inc. 15531 Arrow Hwy, Irwindale, CA 91706 Joe Vasilj (626) 480-1442</p>	<p>\$ 1,120,089.00</p>	<p><u>Start</u> 9/19/18 <u>Completion</u> On-Going</p>
<p><u>La Costa Avenue - Storm Drain Improvements</u> Pre and Post Clean & CCTV of 15" & 18" Storm Drain.</p>	<p>Tri-Group Construction, Inc. 9580 Black Mountain Road, Ste L San Diego CA, 92126 Hani Assi (858) 689-0058</p>	<p>\$ 5,020.00</p>	<p><u>Start</u> 2/1/2019 <u>Completion</u> (R) 4/9/2019</p>
<p><u>PAL Project – Lateral Launch and Locate</u> Lateral Launch & CCTV of 56 sanitary sewer laterals.</p>	<p>Burtech Plumbing 102 Second Street Suite C Encinitas CA, 92024 Bill Schramm (760) 305-2016</p>	<p>\$ 17,180.00</p>	<p><u>Start</u> 11/15/2018 <u>Completion</u> 5/25/2019</p>
<p><u>City of Lynwood PROJECT No. 4011.67.912</u> Installation of 8-Inch UV sectional patches</p>	<p>Sully-Miller Contracting Co. 135 S. State College Blvd, Ste 400 Brea, CA 92821 Jessie Flores (513) 984-2222</p>	<p>\$ 48,550.00</p>	<p><u>Start</u> 4/1/19 <u>Completion</u> 4/30/19</p>
<p><u>Caltrans #07-4W3004 - 91 Freeway to 110 Freeway</u> Clean & CCTV 85 LF of 18" & 30" storm drain. Rehabilitate with CIPP lining systems, install 85LF & Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p>\$ 315,580.00</p>	<p><u>Start</u> 1/28/2019 <u>Completion</u> (R) 10/30/2019</p>
<p><u>RFQ - Point Repair by CIPP Sectional and Top Hat</u> Clean & CCTV, installation of CIPP Sectionals and UV Top Hats at various location, Post Video.</p>	<p>San Diego County Gen. Services 5500 Overland Ave, Suite 315 San Diego, CA Wasim Hanna (858) 694-2723</p>	<p>\$ 25,678.00</p>	<p><u>Start</u> 3/15/2019 <u>Completion</u> 5/18/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>AC Water & Sewer Group 1026</u> Post CCTV inspection of 2,569LF of sanitary sewer at various locations.</p>	<p>PK Mechanical Systems, Inc. 21335 Bundy Canyon Road Wildomar, CA 92595 David Spindler (951) 245-5537</p>	<p style="text-align: center;">\$ 8,675.85</p>	<p style="text-align: center;"><u>Start</u> 1/25/2019 <u>Completion</u> (R) 5/22/2019</p>
<p><u>Vista V-1 West Vista Sewer Phase 1-L</u> Pre & Post CCTV inspections of 3,954LF of v8", 10" 12" & 15" diameters at various locations.</p>	<p>Orion Construction 2185 La Mirada Drive Vista, CA 92081 Richard Newall (760) 597-9660</p>	<p style="text-align: center;">\$ 18,385.00</p>	<p style="text-align: center;"><u>Start</u> 5/13/2019 <u>Completion</u> On-Going</p>
<p><u>Monrovia Renewal North Section Infrastructure Improvement Project</u> Clean & CCTV 12,066LF of 6" & 8" diameter, CIPP rehabilitate 12,831LF of 6" & 8" sanitary sewer, Install 69 SLC's, and 136 UV sectional patches, bypass pumping and 22,470LF of Post CCTV inspection.</p>	<p>Sully-Miller Contracting Co. 135 S. State College Blvd, Ste 400 Brea, CA 92821 Jessie Flores (513) 984-2222</p>	<p style="text-align: center;">\$ 780,216.50</p>	<p style="text-align: center;"><u>Start</u> 2/4/2019 <u>Completion</u> TBD</p>
<p><u>ESR City of Los Angeles - Stone Canyon Road (N. 100 Block)</u> Clean & CCTV, CIPP rehabilitation of 289LF of 10" sanitary sewer, lateral reinstatement and post CCTV.</p>	<p>Spiniello Companies 2650 Pomona Blvd. Pomona, CA 91768 Eugenio Mateo (562) 458-7757</p>	<p style="text-align: center;">\$ 34,494.31</p>	<p style="text-align: center;"><u>Start</u> 2/1/2019 <u>Completion</u> 3/30/2019</p>
<p><u>Sewer & AC Water Group 697A</u> Clean & CCTV 2,200LF of 6" & 8" sanitary sewer, rehabilitate 198LF of 6" & 8" sanitary sewer, SLC's and Post CCTV inspection of 4,089LF of various diameters.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 40,272.40</p>	<p style="text-align: center;"><u>Start</u> 6/19/2019 <u>Completion</u> 10/16/2019</p>
<p><u>Pasadena Storm Drain Repair</u> Clean & CCTV 586LF various diameter storm drain, rehabilitate by CIPP 466LF of 12" & 18" storm drain, post CCTV inspection of 386LF of various diameter storm drain.</p>	<p>GRFCO, Inc. P O Box 1747 Brea, CA 92822 Jim Jackson (800) 375-7272</p>	<p style="text-align: center;">\$ 37,312.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>Hallmark Sewer Rehabilitation</u> Clean & CCTV, Bypass Pumping, 4,222LF 6" & 8" CIPP rehabilitation at various locations, lateral reinstatement and Post Video CCTV.</p>	<p>Eddie Axner Construction, Inc 5249A Old Oregon Trail Redding, CA 96002 Trevor Olds (530) 710-3533</p>	<p style="text-align: center;">\$ 240,178.00</p>	<p style="text-align: center;"><u>Start</u> 4/29/2019 <u>Completion</u> (R) 9/13/2019</p>
<p><u>Chino ITB - Sewer Re-Lining Project</u> Clean & CCTV 13,452LF of 8" & 10" sanitary sewer, rehabilitate by CIPP 13,452LF of 8" & 10" sanitary sewer, traffic control, bypassing, lateral reinstatement and post CCTV inspection.</p>	<p>City of Chino PO Box 667 Chino, CA 91708 Austin Postvoit (909) 334-3250</p>	<p style="text-align: center;">\$ 567,655.00</p>	<p style="text-align: center;"><u>Start</u> 9/11/2019 <u>Completion</u> 2/10/2020</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Oceanside Point Repair Program</u> Pre & Post CCTV video inspection of 1,359LF of 6", 8" & 10" sanitary sewer repairs.</p>	<p>Charles King Company 2841 Gardena Ave. Signal Hill, CA 90755 Debi Hawkins (562) 426-2974</p>	<p style="text-align: center;">\$ 4,756.50</p>	<p style="text-align: center;"><u>Start</u> 3/4/2019 <u>Completion</u> 5/18/2019</p>
<p><u>Cal-Trans 07A4593, 3-Year System Inspection and Repair</u> Clean & CCTV approx. 20,000LF of various diameter storm drain in LA and Ventura counties, approx. 6,500LF of CIPP rehabilitation of various diameters over a 3 year on call project.</p>	<p>Dreambuilder Const. Corp. 1324 E Lawson Ln Placentia Ca 92870 Alex Singh (714) 646-3697</p>	<p style="text-align: center;">\$ 2,634,600.00</p>	<p style="text-align: center;"><u>Start</u> 3/12/2019 <u>Completion</u> On-Going</p>
<p><u>RFP Warner Ranch Siphon 1B</u> Clean & CCTV, CIPP rehabilitate 24-Inch storm drain siphon.</p>	<p>Vista Irrigation District 1391 Engineer Street, Vista, CA 92081 Mark Saltz (760) 597-3112</p>	<p style="text-align: center;">\$ 71,535.00</p>	<p style="text-align: center;"><u>Start</u> 9/30/2019 <u>Completion</u> 10/2/2019</p>
<p><u>Sewer Group 786</u> Clean & CCTV and lateral launch inspections of various diameter sanitary sewers.</p>	<p>Ortiz Corporation 2000 Mc Kinley Avenue National City, CA 91950 Jose Ortiz (619) 434-7925</p>	<p style="text-align: center;">\$ 5,000.00</p>	<p style="text-align: center;"><u>Start</u> 4/4/2019 <u>Completion</u> TBD</p>
<p><u>University 21-inch Repair</u> Installation of 380LF x 21" SPR sanitary sewer rehabilitation.</p>	<p>AUI Incorporated 7420 Reading Ave. SE Albuquerque New Mexico 87105 Mike Rocco (505) 242-4848</p>	<p style="text-align: center;">\$ 48,250.00</p>	<p style="text-align: center;"><u>Start</u> 4/22/2019 <u>Completion</u> (R) 7/1/2019</p>
<p><u>Lemon Grove FY2017-18 Sewer Capital Improvement Project</u> Clean & CCTV, 1,300LF x 8" CIPP rehabilitation, lateral reinstatement, bypass pumping and post video inspection.</p>	<p>Charles King Company 2841 Gardena Ave. Signal Hill, CA 90755 Debi Hawkins (562) 426-2974</p>	<p style="text-align: center;">\$ 66,800.00</p>	<p style="text-align: center;"><u>Start</u> 4/18/2019 <u>Completion</u> 8/9/2019</p>
<p><u>Fullerton - Miscellaneous Storm Drain Improvements</u> Clean & CCTV, 426LF of various diameter CIPP storm drain rehabilitation, traffic control, grouting repairs and post video inspection.</p>	<p>City of Fullerton 303 West Commonwealth Ave Fullerton, CA 92832 (714) 738-6886</p>	<p style="text-align: center;">\$ 164,360.00</p>	<p style="text-align: center;"><u>Start</u> 7/15/2019 <u>Completion</u> (R) 11/4/2019</p>
<p><u>El Centro Emergency Sewer Repairs at Villa Ave</u> Clean & CCTV, 380LF x 27" CIPP rehabilitation, infiltration grouting, bypass operations, traffic control and post video inspection.</p>	<p>City of El Centro 1275 W. Main Street El Centro, CA 92243 Javier Luna, P.E. (760) 337-5182</p>	<p style="text-align: center;">\$ 260,225.00</p>	<p style="text-align: center;"><u>Start</u> 6/5/2019 <u>Completion</u> 12/4/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>LACDPW Culvert Repair and Lining Project, Phase 1</u> Clean & CCTV, 1,029LF x various diameter storm drain CIPP rehabilitation, traffic control and post CCTV inspection.</p>	<p>Los Angeles County Public Works 900 South Fremont Street Alhambra, CA 91803 Joel Zaragoza (626) 458-4951</p>	<p style="text-align: center;">\$ 248,358.00</p>	<p style="text-align: center;"><u>Start</u> 12/9/2019 <u>Completion</u> 2/26/2020</p>
<p><u>Buena Park 24-Inch CMP Repair</u> Clean & CCTV, 100LF x 24" CIPP storm drain rehabilitation, traffic control and post CCTV inspection.</p>	<p>City of Buena Park 6955 Aragon Circle Buena Park, Ca 90622 Frank Moore (714) 562-3708</p>	<p style="text-align: center;">\$ 44,050.00</p>	<p style="text-align: center;"><u>Start</u> 10/21/2019 <u>Completion</u> 10/21/2019</p>
<p><u>City of LA - Albion Riverside Park Project - W.O.# EW40060F</u> Clean & CCTV, 380LF x 10" CIPP rehabilitation, clean and video, lateral reinstatement, post video</p>	<p>Sully-Miller Contracting Co. 135 S. State College Blvd, Ste 400 Brea, CA 92821 Mauricio Arreola (714) 449-2277</p>	<p style="text-align: center;">\$ 33,201.00</p>	<p style="text-align: center;"><u>Start</u> 6/7/2019 <u>Completion</u> 6/7/2019</p>
<p><u>Point Loma Storm Drain</u> Clean & CCTV, 64LF x 24" CIPP storm drain rehabilitation and post video</p>	<p>AMA Diversified Constr. Group. 1305 Simpson Way, Suite L Escondido, CA 92029 Dillon Vissering (760) 444-1010</p>	<p style="text-align: center;">\$ 35,634.00</p>	<p style="text-align: center;"><u>Start</u> 12/1/2019 <u>Completion</u> 12/31/2019</p>
<p><u>Countywide Sewer Improvements FY 2018-19</u> Clean & CCTV, installation of 4,954LF, 8" & 16" CIPP liner at various location, Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 291,352.00</p>	<p style="text-align: center;"><u>Start</u> 10/17/2019 <u>Completion</u> 12/10/2019</p>
<p><u>City of LA - ESR Keswick Str. W.O. # SWC05476</u> Clean & CCTV, 400LF x 8" CIPP rehabilitation, clean and video, lateral reinstatement, post video</p>	<p>Miramontes Const. Co, Inc. P.O. Box 219 Rialto, CA 92377 Yvette Morales (909) 787-3012</p>	<p style="text-align: center;">\$ 42,200.00</p>	<p style="text-align: center;"><u>Start</u> 12/13/2019 <u>Completion</u> 12/13/2019</p>
<p><u>JOC - P17N006 - CMP Storm Drain Lining Right of Way Pipeline North</u> Clean & CCTV, CIPP Lining of 977 LF of 21", 24" & 30" storm drain and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 122,566.50</p>	<p style="text-align: center;"><u>Start</u> 12/2/2019 <u>Completion</u> 12/6/2019</p>
<p><u>JOC - Task P18N003 Accelerated TS Referral Group</u> Clean & CCTV, CIPP Lining of 3,003 LF of 10", 12", 21" & 30" sanitary sewer, and Traffic Control at various locations.</p>	<p>Burtech Pipeline Inc. 102 Second Street, Encinitas, CA 92024 Buddy Aquino (760) 634-2822</p>	<p style="text-align: center;">\$ 534,933.28</p>	<p style="text-align: center;"><u>Start</u> 11/21/2019 <u>Completion</u> 12/18/2019</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>CIP 19-100 CIPP Lining of Sanitary Sewer System</u> Clean & CCTV CIPP lining of 3,193 LF of 8", 10" & 12" sanitary sewer with CIPP lining system, top hats and post video work.</p>	<p>City of Laguna Beach 505 Forest Avenue Laguna Beach, CA 92651 Hannah Johnson (949) 464-6615</p>	<p>\$ 208,073.00</p>	<p><u>Start</u> 11/12/2019 <u>Completion</u> 12/3/2019</p>
<p><u>Sewer Line By CIPP - Loma Linda</u> Clean & CCTV, CIPP Lining of 300LF of 8" sanitary sewer at various locations.</p>	<p>City of Loma Linda 25541 Barton Road Loma Linda, CA Jeff Peterson (909) 799-4400</p>	<p>\$ 28,700.00</p>	<p><u>Start</u> 11/25/2019 <u>Completion</u> 11/25/2019</p>
<p><u>OVSD Sewer Rehabilitation Project</u> Clean & CCTV, traffic control, CIPP Lining of 14,425LF of 8" and 10" sanitary sewer at various locations.</p>	<p>Ojai Valley Sanitary District 1072 Tico Road Ojai, CA 93023 Jon Turner (805) 658-6800</p>	<p>\$ 425,000.00</p>	<p><u>Start</u> 11/6/2018 <u>Completion</u> 1/3/2019</p>
<p><u>JOC - Sewer Rehab Phase AW-1</u> Clean & CCTV 39,321 LF of 8" sanitary Sewer. Rehabilitate with CIPP & SPR lining systems & Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 886,688.55</p>	<p><u>Start</u> 10/4/2019 <u>Completion</u> On-Going</p>
<p><u>Sewer and AC Water Group 807</u> Clean & CCTV (POST) 11,088LF, CIPP Lining of 863LF of 8" sanitary sewer at various locations and top hats.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 90,193.00</p>	<p><u>Start</u> 12/11/2019 <u>Completion</u> 12/17/2019</p>
<p><u>Sewer Pipe Lining - Rainbow-Fallbrook</u> Clean & CCTV, CIPP Lining of 1,054LF of 6" & 8" sanitary sewer at various locations.</p>	<p>Rainbow Municipal Water District 3707 Old Highway 395 Fallbrook, CA 92028 Ryan Stockton (760) 728-1178</p>	<p>\$ 69,000.00</p>	<p><u>Start</u> 10/1/2019 <u>Completion</u> 10/31/2019</p>
<p><u>Caltrans – 07-313704 Glendale Freeway</u> Clean & CCTV 320 LF of 18" storm drain. Rehabilitate with CIPP lining system and Post Video.</p>	<p>Highland Construction, Inc 133 N Pixley Street Orange, CA 92868 Erin Richardson (714) 538-5156</p>	<p>\$ 85,000.00</p>	<p><u>Start</u> 1/13/2020 <u>Completion</u> 1/25/2020</p>
<p><u>City of LA - ESR Canyon View Drive -SWC05478</u> Clean & CCTV, 315LF x 8" CIPP rehabilitation, lateral reinstatement, post video</p>	<p>Mike Bubalo Construction 5102 Gayhurst Ave, Baldwin Park, CA 91706 Brad Sorem (562) 818-4035</p>	<p>\$ 32,247.50</p>	<p><u>Start</u> 1/28/2020 <u>Completion</u> 1/28/2020</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>City of LA - ESR Parthenia Street - SWC05582</u> Clean & CCTV, 382LF x 8" CIPP rehabilitation, lateral reinstatement, post video.</p>	<p>Mike Bubalo Construction 5102 Gayhurst Ave, Baldwin Park, CA 91706 Brad Sorem (562) 818-4035</p>	<p style="text-align: center;">\$ 29,830.00</p>	<p style="text-align: center;"><u>Start</u> 1/28/2020 <u>Completion</u> 1/29/2020</p>
<p><u>Hermosa Beach-Sewer Impr. Ph 2 CIP 17-416</u> Clean & CCTV, 6,400LF x 8" & 10" CIPP rehabilitation, Lateral reinstatements, rootball removal, traffic Control, top hats and post CCTV.</p>	<p>MNR Construction, Inc 1880 Wright Ave , La Verne, CA 91750 Scott Barnett (626) 383-1019</p>	<p style="text-align: center;">\$ 305,695.00</p>	<p style="text-align: center;"><u>Start</u> 1/21/2020 <u>Completion</u> 3/27/2020</p>
<p><u>Paseo De Valencia - 12 -Inch Vertical Drop Repair</u> 30LF x 12" CIPP vent line repair.</p>	<p>T.E. Roberts Inc 306 W Katella Ave, Orange, CA 92867 Justin Roberts (714) 559-2291</p>	<p style="text-align: center;">\$ 9,500.00</p>	<p style="text-align: center;"><u>Start</u> 1/31/2020 <u>Completion</u> 1/31/2020</p>
<p><u>RFP - Storm Drain Culvert Rehabilitation Point Loma</u> 272LF x 15" & 24" CIPP storm drain rehabilitation. Clean & CCTV and post CCTV inspection.</p>	<p>California Constructors 7062 Convoy Court , San Diego, CA 92111 Tony Gutierrez (858) 775-9920</p>	<p style="text-align: center;">\$ 97,086.00</p>	<p style="text-align: center;"><u>Start</u> 1/6/2020 <u>Completion</u> 2/5/2020</p>
<p><u>Sewer Rehabilitation N Fresno and E Shields</u> Clean & CCTV, CIPP Lining of 2,659 LF of 12" and 15-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 240,624.00</p>	<p style="text-align: center;"><u>Start</u> 2/20/2020 <u>Completion</u> 3/6/2020</p>
<p><u>Sewer Improvements in the Vicinity of N First Street and E Dakota Avenue</u> Clean & CCTV, CIPP Lining of 5,711LF of 6", 8" and 12-Inch sanitary sewer, Traffic Control, Bypass Pumping, Point Repairs.</p>	<p>Emmitt's Excavation Inc 6207 E. Clinton Ave Fresno CA 93727 David Walsh (559) 347-9188</p>	<p style="text-align: center;">\$ 230,648.00</p>	<p style="text-align: center;"><u>Start</u> 12/20/2019 <u>Completion</u> 3/27/2020</p>
<p><u>AC Water & Sewer Group 1020</u> Final Post CCTV, 303LF 8-Inch Cured In Place lining.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 20,787.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>AC Water & Sewer Group 1026</u> Final Post CCTV, 303LF 8-Inch Cured In Place lining.</p>	<p>PK Mechanical Systems, Inc. 21335 Bundy Canyon Road Wildomar, CA 92595 David Spindler (951) 245-5537</p>	<p style="text-align: center;">\$ 84,968.00</p>	<p style="text-align: center;"><u>Start</u> 3-30-2020 <u>Completion</u> TBD</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>AC Water & Sewer Group 1027</u> Final Post CCTV, 188LF 8-Inch Cured In Place lining.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p style="text-align: center;">\$ 3,243.00</p>	<p style="text-align: center;"><u>Start</u> 11-1-2019 <u>Completion</u> 11-1-2019</p>
<p><u>AC Water & Sewer Group 1042</u> Final Post CCTV, 1,274LF post CCTV inspection.</p>	<p>S.C. Valley Engineering, Inc 656 Front St, El Cajon, CA 92020 Scott Miller (619) 444-2326</p>	<p style="text-align: center;">\$ 3,822.00</p>	<p style="text-align: center;"><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>Buena Park 2019-2020 Sewer Main Rehabilitation</u> Clean & CCTV, 7,019LF 8", 10" & 12" sanitary sewer rehabilitation with SPR, traffic control, bypassing and post CCTV</p>	<p>City of Buena Park 656 Front St, Buena Park, CA 92020 Teddy Luong (714) 562-3670</p>	<p style="text-align: center;">\$ 349,570.00</p>	<p style="text-align: center;"><u>Start</u> 4-20-2020 <u>Completion</u> TBD</p>
<p><u>Caltrans – 07-313404 Monterey Park 710 Freeway</u> Clean & CCTV 2,246LF of 18", 24" & 36" storm drain Rehabilitation with CIPP lining system and Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p style="text-align: center;">\$ 400,331.11</p>	<p style="text-align: center;"><u>Start</u> 2-3-2020 <u>Completion</u> 4-29-2020</p>
<p><u>Caltrans – 08-1C9304 Big Pines Creek Lake Arrowhead</u> Clean & CCTV 560LF of 18", 24" & 36" storm drain Rehabilitation with CIPP, SPR & Alternative pipe lining system and Post Video.</p>	<p>Jabre Contracting Inc., 1813 Manzanita Lane Manhattan Beach, CA 90206 Bob Collins (310) 720-0277</p>	<p style="text-align: center;">\$ 241,295.00</p>	<p style="text-align: center;"><u>Start</u> 4-13-2020 <u>Completion</u> TBD</p>
<p><u>Caltrans – 11-422114 Culvert Repair and Replace Guardrail and Fence</u> Clean & CCTV 5,570 LF of 18", 24", 30", 36" & 48" storm drain Rehabilitation with CIPP pipe lining system, preparing culvert structures and Post Video.</p>	<p>Hazard Construction Company 10529 Vine Street Lakeside, CA 92040 Brad Lothers (858) 587-3600</p>	<p style="text-align: center;">\$ 842,260.00</p>	<p style="text-align: center;"><u>Start</u> 5-21-2020 <u>Completion</u> TBD</p>
<p><u>North Norwalk Trunk Sewer Rehabilitation</u> Clean & CCTV 650LF of 15" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation and Post Video.</p>	<p>LACSD 1955 Workman Mill Road Whittier, Ca 90601 Jenny Hsu (562) 699-7411</p>	<p style="text-align: center;">\$ 105,770.00</p>	<p style="text-align: center;"><u>Start</u> 3-27-2020 <u>Completion</u> 3-30-2020</p>
<p><u>Claremont Trunk Sewer Rehabilitation</u> Clean & CCTV 13,198LF of 12" and 15" sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>LACSD 1955 Workman Mill Road Whittier, Ca 90601 Jenny Hsu (562) 699-7411</p>	<p style="text-align: center;">\$ 1,172,893.00</p>	<p style="text-align: center;"><u>Start</u> 11-20-2019 <u>Completion</u> TBD</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<p><u>Millennium Hawthorne</u> Clean & CCTV 1,070LF of 12” and 15” sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>Mark Company 2288 North Batavia, Orange, CA 92865 Isaiah Apodaca (714) 685-3462</p>	<p>\$ 110,470.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>2017-18 Pipeline Rehabilitation and Replacement</u> Clean & CCTV 25,576LF of 6”, 8”, 10”, 14”, 15” & 16” Sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, pipe-Bursting, bypass, top hats, lateral lining and Post Video.</p>	<p>Napa Sanitation District 1515 Soscol Ferry Road, Napa, CA 94558 Simon Kobayashi (707) 258-6030</p>	<p>\$ 6,445,000.00</p>	<p><u>Start</u> 1-28-2020 <u>Completion</u> TBD</p>
<p><u>2020 Collection System Rehabilitation Project CIP 19703</u> Clean & CCTV 3,585LF of 8”, 12” and 18” sanitary sewer Rehabilitation with CIPP pipe lining System, manhole rehabilitation, point repairs, bypass and Post Video.</p>	<p>Moulton Niguel Water District 26880 Aliso Viejo Parkway, Aliso Viejo, Ca 92656 Sheldon Yu, PE (949) 831-2500</p>	<p>\$ 325,000.00</p>	<p><u>Start</u> 4-27-2020 <u>Completion</u> TBD</p>
<p><u>Manhole and Pipe Repair (SPR)</u> Clean & CCTV 350LF of 24-Inch sanitary sewer Rehabilitation with SPR lining system, manhole installation, point repairs, bypass and Post Video.</p>	<p>Orange County Sanitation District 10844 Ellis Avenue, Fountain Valley, CA Brandon Garcia (714) 593-7306AW-1</p>	<p>\$ 350,000.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>OCSD Boulevard Force Main Replacement</u> Clean & CCTV 280LF of 27” dual sanitary sewer siphons. Rehabilitate with CIPP pipe lining system and Post Video.</p>	<p>Teichert Utilities 3780 Kilroy Airport Way, Suite 700, Long Beach, CA 90806 Fladio Godines (916) 634-3161</p>	<p>\$ 198,160.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>
<p><u>Pipeline Rehab Phase AV-1</u> Clean & CCTV 33,313LF of 8” sanitary sewer. Rehabilitate with CIPP & SPR lining systems, reinstate 413 service laterals & Post Video.</p>	<p>Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340</p>	<p>\$ 749,542.50</p>	<p><u>Start</u> 3-2-2020 <u>Completion</u> On-Going</p>
<p><u>Paseo De Valencia</u> Clean & CCTV 12” Vertical Drop. Rehabilitate with CIPP & Post Video.</p>	<p>T.E. Roberts Inc. 306 W Katella Ave, Orange, CA 92867 Justin Roberts (714) 559-2291</p>	<p>\$ 9,500.00</p>	<p><u>Start</u> 2-3-2020 <u>Completion</u> 2-3-2020</p>
<p><u>Carlsbad - Storm Drain System Rehabilitation</u> Clean & CCTV 840 LF of 12” to 42” storm drain. Rehabilitate with CIPP lining systems & Post Video.</p>	<p>City of Carlsbad 1635 Faraday Avenue, Carlsbad, CA 92024 Emily Hasegawa (760) 602-2460</p>	<p>\$ 297,975.00</p>	<p><u>Start</u> TBD <u>Completion</u> TBD</p>





Nu-Line Technologies, LLC Project References – CIPP/SPR

<u>Oceanside Post</u> Post CCTV new sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 11,740.00	<u>Start</u> 2-1-2020 <u>Completion</u> 2-29-2020
<u>Leucadia Wastewater District – Emergency Repair</u> Clean & CCTV, installation of 8” UV Sectional liner & Post Video.	Leucadia Wastewater District 1960 La Costa Avenue, Carlsbad, CA 92024 Marvin Gonzalez (760) 753-0155	\$ 4,425.00	<u>Start</u> 3-11-2020 <u>Completion</u> 3-11-2020
<u>Buena Vista Storm Drain</u> Post CCTV new storm drain construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 2,705.00	<u>Start</u> 3-31-2020 <u>Completion</u> 3-31-2020
<u>W.B. Rte.91 Freeway at Santa Fe/Alameda Off-Ramp</u> Post CCTV new storm drain construction.	Peterson – Chase 16351 Construction Circle West Irvine, CA 92606 Jon Vandersloot (949) 677-0295	\$ 5,586.00	<u>Start</u> 4-28-2020 <u>Completion</u> 4-28-2020
<u>City of San Diego - Sewer Group 841</u> Post CCTV 3,138 LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 7,845.00	<u>Start</u> 5-5-2020 <u>Completion</u> On-Going
<u>City of Downey – Fidler Ave Sewer Rehabilitation</u> Clean & CCTV 1,209LF of 8” sanitary sewer. Rehabilitate with CIPP lining systems, reinstate 38 service laterals & Post Video.	City of Downey 11111 Brookshire Avenue PO Box 7018 Downey, CAS 90241 Janet Ortega (562) 658-9565	\$ 115,290.00	<u>Start</u> TBD <u>Completion</u> TBD
<u>City of San Diego – AC Water & Sewer Group 1023</u> Post CCTV 697LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 2,788.00	<u>Start</u> TBD <u>Completion</u> TBD
<u>City of San Diego – Sewer & AC Water Group 765</u> Pre & Post CCTV of 5,383LF new sanitary sewer construction.	Burtech Pipeline Inc. 102 Second Street Encinitas CA 92024 Buddy Aquino (760) 726-1340	\$ 20,186.25	<u>Start</u> TBD <u>Completion</u> TBD





Nu-Line Technologies, LLC Project References – CIPP/SPR

Experience by Diameter

Size	2014	2015	2016	2017	2018	2019	2020 WIP*	Total
6"	1,668	4,543	8,249	8,654	36,158	42,537	3,527	105,336
8"	38,410	44,062	133,915	119,261	99,197	151,155	70,920	656,920
10"	516	773	4,878	1,250	9,294	16,861	3,149	36,721
12"	0	1,779	2,607	4,389	2,758	6,556	10,993	29,082
14"	0	102	448	0	641	221	0793	2,205
15"	330	1,222	768	3,368	718	6,943	3,656	17,005
16"	0	285	0	0	0	1,594	0	1,879
18"	327	962	938	3,425	3,857	9,123	1,922	20,554
20"	0	0	0	0	1,720	0	0	1,720
21"	0	5,478	309	506	775	3,830	0	10,898
24"	95	952	1,141	2,053	4,038	9,436	4,016	21,731
27"	0	0	0	0	288	380	0	668
30"	0	656	779	701	1,003	5,117	887	9,143
33"	0	144	0	0	44	0	0	188
36"	0	40	882	40	1,448	1,364	951	4,725
39"	0	0	0	190	0	0	0	190
42"	0	61	0	180	1,166	332	95	1,834
48"	0	0	0	0	574	0	649	1,223
54"	0	0	0	0	214	0	0	214
60"	0	0	542	0	483	0	0	1,025
Total	41,346	61,059	155,456	144,017	164,376	255,449	101,558*	923,261





Education

- Azusa High School, Azusa, CA

Training

- Confined Space training Boom certification
- Forklift certification
- CPR training
- Alcohol and Drug training.

Jorge Beltran

Superintendent

Professional Experience

Mr. Beltran has over twenty years' experience in the construction, trenchless technology and pipeline rehabilitation industry with a Career progression from a Laborer to Foreman up to a Superintendent. His expertise with the large diameter CIPP and Rib Loc sewer/storm drain lining include extensive knowledge in sewer bypass operations.

Nu-Line Technologies Operations Manager

- Leads scheduling, managing and organization of Nu-Line Technologies, LLC field activities.
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Train field employees with proper use.
- Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

RePipe-California Superintendent

- Responsible for management of crews for the installation of Both CIPP and RibLoc Pipe Rehabilitation Systems.
- Reports to the Operations and Project Managers with regard to Daily construction progress and activities.
- Schedules and manages weekly construction work and man-hours, and reports daily
- Construction hours and progress from lining Foremen and Cutters, to Operations and Accounting.
- Oversee daily bypass and traffic control (set-up, operation, tear-down)
- Provides field technical support, problem solving and Troubleshooting.
- Interaction and contact with City Engineers and Inspectors.
- Works in conjunction with Project Estimator on job walks prior To project bid.

**Preussag Pipe Rehabilitation, Inc.
Superintendent**

Management of crews for the installation of the RibLoc Pipe Rehabilitation System.

- Reported construction progress and activities.
- Managed weekly schedules.
- Provides field technical support, problem solving and Troubleshooting.
- Worked directly with project managers

**G.B. Cooke Pipeline Rehabilitation
Installation Supervisor**

- Responsibility for the supervision and scheduling of crews.
- Schedule projects, complete daily reports, complete employee time sheets, run projects and complete yearly employee evaluations.

**Insituform, Southwest
Installation Supervisor**

- Responsibility for the supervision and scheduling of crews.
- Schedule projects, complete daily reports, complete employee time sheets, run projects and complete yearly employee evaluations.
- Began employment as a Laborer and was promoted to a Supervisor.



Education

- Lynwood High School, Lynwood, CA

Training

- Confined Space training Boom certification
- Forklift certification
- CPR training
- Alcohol and Drug training.

Cesar Magana

Foreman

Professional Experience

Mr. Magana has over six years' experience in the construction, trenchless technology and pipeline rehabilitation industry, with a Career progression from a Laborer to Foreman. His expertise is with CIPP sewer/storm drain lining and includes extensive knowledge in sewer bypass operations.

Nu-Line Technologies Foreman

- Leads scheduling, managing, and organization of Nu-Line Technologies CIPP installation field activities.
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assists GM and Estimator with Project Estimates for bids.
- Analyzes and solves all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develops and implements sewer bypass systems.
- Identifies, initiates, and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

RePipe-California Laborer/Driver

- Responsible for the installation of CIPP Pipe Rehabilitation Systems.
- Oversaw daily bypass and traffic control (set-up, operation, and tear-down).

Kenny Construction Foreman

- Management of crews for the installation of the CIPP Pipe Rehabilitation System.
- Reported construction progress and activities.
- Managed weekly schedules.
- Provide field technical support, problem solving, and troubleshooting.
- Worked directly with project managers

RePipe-California Laborer/Driver

- Responsible for the installation of CIPP Pipe Rehabilitation Systems.
- Oversaw daily bypass and traffic control (set-up, operation, and tear-down).



Education

- Covina High School

Training

- Confined Space Training
- CCTV, Lateral Cutting and Chemical Grouting

Fernando Uribe

*CCTV/Cutter Operator
West Coast Region*

Professional Experience

With Over ten years' experience in the construction and pipeline rehabilitation industry, Mr. Uribe has progressed from a Technician, Supervisor and Superintendent in the Rib Loc, Cured-In-Place, and Fold & Form pipelining methods. Additionally he has successfully trained CCTV and Cutter operators for Burtech Pipeline.

Nu-Line Technologies, LLC

Cutter/CCTV Operator

Oversee Cutting and CCTV Crew
Operation and maintenance of Cues equipment
Development and training of new employees.
Continuing education and research for development of efficiencies for lateral cutting.
Investigation, development and training of new technologies.

Repipe-California

Cutter/CCTV Operator

CCTV, Cutting and Lateral Grouting
Operation and maintenance of Cues equipment
Development and training of new employees.
Continuing education and research for development of efficiencies for lateral cutting.
Investigation, development and training of new technologies.

Preussag Pipe Rehabilitation, Inc.

Cutter/CCTV Operator

Operation and maintenance of Cues equipment.
Coordination of the Training for new technicians.
Research and development for efficiency of lateral cutting.



Education

- Serrano High School – Phelan, CA

Training

- Confined Space training Boom certification
- Forklift certification
- CPR training
- Alcohol and Drug training.

Joe Zilius

Foreman

Professional Experience

Mr. Zilius has over fifteen years' experience in the construction, trenchless technology and pipeline rehabilitation industry with a Career progression from a Laborer to Foreman. His expertise is with both CIPP and Spiral Wound Lining systems in sewer/storm drain lining include extensive knowledge in sewer bypass operations.

Nu-Line Technologies Foreman

- Responsible for management of crews for the installation of both CIPP and RibLoc Pipe Rehabilitation Systems
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

Arizona Pipeline Laborer

- Responsible for management of crews for the installation of dig and replace pipeline systems.
- Oversee daily bypass and traffic control (set-up, operation, and tear-down)
- Provides field technical support, problem solving and troubleshooting.



Education

- Rio Hondo Community College
- Arroyo High School, El Monte, CA

Training

- Small Crane Truck Certificate
- Commercial Class A Drivers License,
- Forklift certification.

Certifications

- 1995 Employee of the Year –Insituform Southwest.

Frank Durazo

*Operations Manager
West Coast Region*

Professional Experience

Mr. Durazo has over twenty years' experience in the trenchless technology industry with experience in Cured-In-Place and Rib Loc pipelining processes including CIPP Wetout. Using his expertise he has progressed from a supervisor to Warehouse Foreman and was promoted to the position of Project Manager.

Nu-Line Technologies Operations Manager

- Leads scheduling, managing and organization of Burtech Pipeline field activities.
- Provides technical and project approach guidance to Nu-Line Technologies field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Train field employees with proper use.
- Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

Repipe-California, Inc., Ontario, CA Operations Manager

- Leads scheduling, managing and organization of Repipe-CA field activities.
- Provides technical and project approach guidance to Repipe-CA field personnel.
- Communicates with owner's field representatives, site engineers, inspectors and subcontractor supervisors on project-related matters.
- Assist GM and Estimator with Project Estimates for bids
- Analyze and solve all field-related problems (Equipment, Installation, Personnel, Etc.).
- Develop and implement sewer bypass systems. Train field employees with proper use.
- Identifies, initiates and controls project revisions and field changes.
- Reviews project costs and assists in developing project budgets.

Repipe-California, Inc. Ontario, CA Project Manager/Project Scheduler

- Responsible for scheduling and ordering of all lining materials, wet-out and delivery.
- Manage multiple CIPP and Rib Loc projects simultaneously from \$100k to \$2.5M.
- Review of job costs to ensure profitable projects.
- Prepare submittals, schedules, cost estimates, and interact with clients and contractors
- Assist GM and Estimator with Project Estimates for bids

**Repipe-California, Inc, Santa Ana, CA
Warehouse Foreman/Project Scheduler**

- Responsible for scheduling and ordering of all lining materials, wet-out and delivery.
- Maintain and repair of all Repipe-CA construction equipment and vehicles, management of all inventory and job-related materials, ordering of equipment materials and supplies, assistance to field as required on-site with Rib Loc, or CIPP installations, and establishment and maintenance of warehouse operations.
- Identify and negotiate with new suppliers
- Performs as the acting Safety Director and assures that OSHA safety compliance is adhered to in the field, corporate office and within the warehouse environment.

**Preussag Pipe Rehabilitation
Warehouse Foreman**

- Responsible for the maintenance and repair of all PPR construction equipment and vehicles, management of all inventory and job-related materials, ordering of equipment materials and supplies, assistance to field as required on-site with RibLoc, or CIPP installations, and establishment and maintenance of warehouse operations.
- Responsible for resourcing equipment and material vendors.
- Mechanical assistance to jobsite and field personnel.
- Oversee Driver Vehicle Inspection Reports and Driver Daily Logs for DOT Bit Inspections and coordinates quarterly maintenance for corporate fleet in preparation of DOT bit inspections.
- Performs as the acting Safety Director and assures that OSHA safety compliance is adhered to in the field, corporate office and within the warehouse environment.

**National Liner-West, Gardena, CA
Installation Supervisor**

- Supervision of the impregnation and installation for Cured-In-Place trenchless lining system for the Western Region of the United States.
- Installation Supervisor for 10 crewmembers for the U-Liner Fold and Form Lining System.
- Additional responsibilities included daily reporting to inspectors from various cities and counties, purchasing and ordering of equipment and materials and scheduling of equipment and personnel for projects.

**Cooke Pipeline Rehabilitation
Installation Supervisor**

- Supervision for the impregnation and installation procedures for Cured-In-Place trenchless pipeliners and the Ultra-Liner Fold and Form System pipelining system.
- Acted as Purchasing Agent for equipment and materials for the jobsites and was responsible for bypass planning and traffic control setup.

**Insituform, Southwest
Installation Supervisor**

- Responsible for the impregnation procedure for the trenchless Cured-In-Place Lining System.
- Responsible for job scheduling; personnel and equipment, purchasing and ordering of materials and field sample testing and reporting.

Senior Welder

- Responsible for welding and fabrication of equipment for the snack food industry.
- Additional responsibilities included blueprint design, research and development for prototypes.



20520 Unico Road
McKenney, VA 23872
804.451.3667

January 15, 2015

To Whom it may concern:

Hector Mora is certified and approved by Ferratex Inc. as a boiler technician. He has vast experience in the installation and curing of Ferratex products.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Gerhard Rodenberger', with a long horizontal flourish extending to the right.

Gerhardt Rodenberger



October 29, 2017

To Whom It May Concern:

This letter is to certify that the following licensee of Sekisui SPR Americas LLC has been trained and certified to install SPR-EX spiral wound liners.

Nuline Technologies – Effective date – November 2015

With the license, the customer has purchased equipment as well as completed a training course on the proper installation method of SPR-EX spiral wound rehabilitation process.

Kind Regards,

Joseph P. Dominguez
Sr. Technical Services Engineer,
Sekisui SPR Americas LLC



August 14, 2015

Nu-Line Technologies, LLC
102 Second Street
Encinitas, CA 92024

CERTIFICATE OF INSTALLER

To Whom It May Concern:

This certificate verifies that **Nu-Line Technologies, LLC** has received all necessary Training for the preparation and installation procedures for the **Cosmic "TOPHAT" Lateral connection & Short liner spot repair sealing systems.** Nu-Line Technologies, LLC has been certified since January 2015.

If there are any questions, please contact Chris Scarratt at information listed below.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Scarratt", is written over a light blue, curved swoosh that matches the Cosmic Engineering logo.

Chris Scarratt
Cosmic Engineering GmbH

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Jorge Beltran
(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

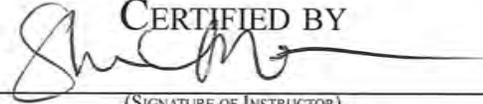
TRAINING WAS COMPLETED ON

September 14, 2018
(DATE)

TRAINING WAS CONDUCTED BY

Sharr Martin
(NAME OF INSTRUCTOR)

NATIONAL
safety
COMPLIANCE
www.osha-safety-training.net

CERTIFIED BY

(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Hector Mora

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

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Sharr Martin

(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Mike A. Covarrubias

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

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CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Jose D. Correa

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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THIS IS TO CERTIFY THAT

Jonathan L. Moss

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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THIS IS TO CERTIFY THAT

Njabulo Mbelu

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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THIS IS TO CERTIFY THAT

Juan J. Exiga

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

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September 14, 2018

(DATE)

TRAINING WAS CONDUCTED BY

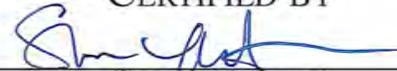
Sharr Martin

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CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)

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THIS IS TO CERTIFY THAT

Juan M. Contreras

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

TRAINING WAS COMPLETED ON

September 14, 2018

(DATE)

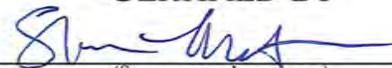
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(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Scott D. Meyer

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

Confined Spaces

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THIS IS TO CERTIFY THAT

Roberto Caratachea

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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THIS IS TO CERTIFY THAT

Juan J. Diaz

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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Sharr Martin

(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Fernando Uribe

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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Sharr Martin

(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Caesar M. Magana

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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CERTIFIED BY

Sharr Martin

(SIGNATURE OF INSTRUCTOR)

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

Joseph Zilius

(NAME OF EMPLOYEE)

HAS SUCCESSFULLY COMPLETED THE TRAINING PROGRAM

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www.osha-safety-training.net

CERTIFIED BY



(SIGNATURE OF INSTRUCTOR)



20520 Unico Road
McKenney, VA 23872
804.451.3667
www.FerraTex.com

LINER INSTALLATION LICENSE

Date: January 3, 2015

This is to certify that Nu-Line Technologies, LLC is a licensed CIPP installer of the FerraTex Liner. FerraTex is a subsidiary of Spiniello Companies and has 25 years' experience of liner manufacturing in the United States. FerraTex Liners are manufactured in accordance with the specifications of FerraTex and comply with the requirements of ASTM F1216. FerraTex liners are comprised of Felt and coated felt components from Applied Felts, Non-Woven Solutions, and Haartz Materials. Additionally the liner utilizes a resin from AOC or interplastics with a catalyst system from Akzo Nobel.

Gerhardt Rodenberger
Division Manager, CIPP

Bid Results

Self Performance 73% = MET

Bidder Details

Vendor Name Palm Engineering Construction Co., Inc.
Address 3545 Camino del Rio South Suite A
San Diego, CA, California 92108
United States
Respondee Rasoul Shahbazi
Respondee Title President
Phone 619-291-1495
Email richard@palmengineeringco.com
Vendor Type CADIR, MALE, PQUAL
License # 853930
CADIR 1000003218

Bid Detail

Bid Format Electronic
Submitted 05/06/2021 1:48 PM (PDT)
Delivery Method
Bid Responsive
Bid Status Submitted
Confirmation # 253057
Ranking 0

Respondee Comment

Buyer Comment

Attachments

File Title	File Name	File Type
INSTALL CERT.pdf	INSTALL CERT.pdf	Manufacturer Authorized Installer Certification
DEBAR PRIME.pdf	DEBAR PRIME.pdf	Debarment and Suspension Certification for Prime Contractor
MAND BUS.pdf	MAND BUS.pdf	Mandatory Disclosure of Business Interest Form
NuLine Qualification Package.pdf	NuLine Qualification Package.pdf	Contractor's Experience and Past Project Documentation
PALM PENDING.pdf	PALM PENDING.pdf	Contractor's Certification of Pending Actions
DEBARMENT SUBS.pdf	DEBARMENT SUBS.pdf	Debarment and Suspension Certification for Subs, Supp, MFR
SUB ADD ALT.pdf	SUB ADD ALT.pdf	Subcontractor Listing for Alternate Items
PALM BID BOND.pdf	PALM BID BOND.pdf	Bid Bond

Subcontractors

Showing 12 Subcontractors

Name & Address	Desc	License Num	CADIR	Amount	Type
A. B. Hashmi, Inc. 13066 Deer Canyon Court San Diego, California 92131	Bid Items 20, 22-26, 50, 53-55, 71, 87 and 89 Concrete pavement, curb ramps, sidewalk, WPCP implementation, traffic control and partial base paving	798383	1000002125	\$539,610.61	ELBE, DBE, CADIR, PQUAL
Frank and Son Paving, Inc. P.O. Box 698 Bonita, California 91908	Bid Items 15, 19, 30, 91 and 92 Asphalt repairs and cold milling, partial base paving, T-cut on AC cap..	612545	1000009502	\$357,425.60	ELBE
G. Scott Asphalt, Inc. 358 Trousdale Drive Chula Vista, California 91910	Bid Items 16-18 Slurry	751836	1000004252	\$325,492.54	
McGrath Consulting PO Box 2488 El Cajon, California 92021	Bid Item 49 WPCP development	000000	1000037165	\$600.00	
National Coating & Lining 26713 Madison Ave Murrieta, California 92532	Rehabilitation and lining of two 48" existing manholes	886430	1000013795	\$4,642.00	
Nuline Technologies 102 2nd St. #B Encinitas, California 92024	Bid Item 78,79,83 Rehabilitate sewer, service lateral connection, service lateral rehabilitation (lining only).	997520	1000003808	\$40,738.00	
R & C Structures 1615 La Mirada Dr San Diego, California 92078	Bid Item 72 Manholes (materials)	425215	1000004446	\$26,775.00	
Red Tail Environmental 328 State Place Escondido, California 92029	Bid Item 9 Archaeological, Native American Monitoring	00000	1000031633	\$2,932.00	
Soclaris Contracting 7437 Lowell Ct. La Mesa, California 91942	Bid Items 5-8, 52 Hazardous waste management, testing, sampling and disposal	793838	1000011964	\$127,830.00	CAU, MALE, DVBE, CADIR, SDVSB
Southwest Signal Services 397 Raleigh Ave El Cajon, California 92020	Bid Items 44-45 Traffic loops	451115	1000004265	\$9,200.00	

Statewide Stripes Inc. PO Box 600710 San Diego, California 92160	Bid Item 34-37,47 Striping, striping removal, continental crosswalks	788286	1000001334	\$15,625.00	DBE
Vic Salazar Communications 5205 Kearny Villa Road Suite 107 San Diego, California 92123	Bid Item 3 Community liaison	00000	1000364796	\$30,000.00	LAT, MALE, ELBE, DBE, MBE, CADIR

Line Items

Discount Terms No Discount

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
Main Bid (BASE BID/COMMON ITEMS)							\$1,993,746.00		
1	524126		Bonds (Payment and Performance)	LS	1	\$89,105.92	\$89,105.92	Yes	
2	237110		Sewage Bypass and Pumping Plan (Diversion Plan)	LS	1	\$25,000.00	\$25,000.00	Yes	
3	541820		Exclusive Community Liaison Services	LS	1	\$33,000.00	\$33,000.00	Yes	
4	238910		Preparation of Waste Management Form	LS	1	\$2,750.00	\$2,750.00	Yes	
5	238990		Preparation of Hazardous Waste Management Plan and Reporting	LS	1	\$8,250.00	\$8,250.00	Yes	
6	541690		Monitoring of Contaminated Soil	HR	66	\$126.50	\$8,349.00	Yes	
7	238990		Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	TON	498	\$49.50	\$24,651.00	Yes	
8	238990		Loading, Transportation, and Disposal of Petroleum Contaminated Soil	TON	498	\$93.50	\$46,563.00	Yes	
9	541690		Archaeological and Native American Monitoring Program	LF	100	\$32.25	\$3,225.00	Yes	
10	541690		Suspension of Work - Resources	DAY	5	\$500.00	\$2,500.00	Yes	
11	541690		Archaeological and Native American Mitigation and Curation (EOC Type I)	AL	1	\$5,000.00	\$5,000.00	Yes	
12	237110		Mobilization	LS	1	\$220,000.00	\$220,000.00	Yes	
13			Field Orders (EOC Type II)	AL	1	\$325,000.00	\$325,000.00	Yes	
14	238910		Clearing and Grubbing	LS	1	\$33,000.00	\$33,000.00	Yes	
15	237310		Asphalt Pavement Repair	TON	300	\$210.00	\$63,000.00	Yes	
16	237310		Rubber Polymer Modified Slurry (RPMS) Type I	SF	360922	\$0.42	\$151,587.24	Yes	
17	237310		Rubber Polymer Modified Slurry (RPMS) Type II	SF	393402	\$0.52	\$204,569.04	Yes	
18	237310		Rubber Polymer Modified Slurry (RPMS) Type III	SF	32480	\$1.06	\$34,428.80	Yes	
19	237310		Pavement Restoration Adjacent to Trench	SF	12738	\$9.50	\$121,011.00	Yes	
20	238910		Concrete Pavement (6 Inch thick)	CY	17	\$465.00	\$7,905.00	Yes	
21	237310		Crack Seal	LB	2500	\$7.50	\$18,750.00	Yes	
22	237310		Remove and Replace Existing Sidewalk	SF	3200	\$13.00	\$41,600.00	Yes	
23	237310		Cross Gutter	SF	2700	\$17.00	\$45,900.00	Yes	
24	237310		Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles	EA	7	\$4,500.00	\$31,500.00	Yes	
25	237310		Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles	EA	2	\$4,500.00	\$9,000.00	Yes	
26	237310		Curb Ramp (Type C-1) with Stainless Steel Detectable Warning Tiles	EA	3	\$4,500.00	\$13,500.00	Yes	
27	237310		Curb Ramp (Type D) with Stainless Steel Detectable Warning Tiles	EA	2	\$4,500.00	\$9,000.00	Yes	
28	237310		Additional Sidewalk	SF	2500	\$10.00	\$25,000.00	Yes	
29	237310		Additional Curb	LF	1200	\$55.00	\$66,000.00	Yes	
30	237110		Phased Paving	EA	8	\$500.00	\$4,000.00	Yes	
31	237310		Temporary Resurfacing	TON	539	\$135.00	\$72,765.00	Yes	
32	237110		Imported Trench Backfill	TON	6800	\$1.00	\$6,800.00	Yes	
33	238990		Survey Monument	EA	5	\$1,500.00	\$7,500.00	Yes	
34	237310		Removal and Replacement of Existing Paint Striping	LS	1	\$7,800.00	\$7,800.00	Yes	
35	237310		Painted Traffic Stripes and Painted Curb Markings	LF	150	\$1.80	\$270.00	Yes	
36	237310		Removal and Replacement of Existing Thermoplastic Striping and Markings	LS	1	\$4,680.00	\$4,680.00	Yes	
37	237310		Continental Crosswalks	SF	1800	\$2.40	\$4,320.00	Yes	
38	238990		Video Recording of Existing Conditions	LS	1	\$2,436.00	\$2,436.00	Yes	
39	238910		Tree Removal and Disposal (Less Than 24 Inch Trunk Diameter)	EA	2	\$1,500.00	\$3,000.00	Yes	
40	237110		Potholing Existing Utilities Not Shown on Plans (Depth Up to 7 Feet)	EA	50	\$650.00	\$32,500.00	Yes	
41	237310		Adjust Existing Manhole Frame and Cover to Grade	EA	24	\$650.00	\$15,600.00	Yes	
42	237310		Adjust Existing Gate Valve Frame and Cover to Grade	EA	42	\$425.00	\$17,850.00	Yes	
43	237310		Adjust Existing Survey Monument to Grade	EA	4	\$800.00	\$3,200.00	Yes	
44	237310		Traffic Signal Loop and Appurtenance Replacement (Modified Type E)	EA	4	\$780.00	\$3,120.00	Yes	
45	237310		Traffic Signal Loop and Appurtenance Replacement (Type E)	EA	12	\$660.00	\$7,920.00	Yes	
46	541330		Traffic Control and Working Drawings	LS	1	\$40,000.00	\$40,000.00	Yes	
47	237310		Pedestrian Barricade (Type A)	EA	2	\$840.00	\$1,680.00	Yes	
48	237110		Pavement Restoration for Final Connection	SF	800	\$16.80	\$13,440.00	Yes	
49	541330		WPCP Development	LS	1	\$720.00	\$720.00	Yes	

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
50	237310		WPCP Implementation	LS	1	\$75,000.00	\$75,000.00	Yes	
Main Bid (BASE BID/WATER)							\$2,751,998.00		
51	237110		Removal of Abandoned Water Meter Box	EA	4	\$450.00	\$1,800.00	Yes	
52	237110		Handling and Disposal of Non-friable Asbestos Material	LF	10705	\$12.00	\$128,460.00	Yes	
53	237110		Water Main (12 Inch)	LF	3664	\$150.00	\$549,600.00	Yes	
54	237110		Water Main (8 Inch, Class 305)	LF	1399	\$122.00	\$170,678.00	Yes	
55	237110		Water Main (8 Inch)	LF	5526	\$120.00	\$663,120.00	Yes	
56	237110		Gate Valve (12 Inch)	EA	4	\$3,285.00	\$13,140.00	Yes	
57	237110		Gate Valve (8 Inch)	EA	16	\$1,965.00	\$31,440.00	Yes	
58	237110		Fire Hydrant Assembly and Marker (6 Inch, 2 Ports)	EA	24	\$7,800.00	\$187,200.00	Yes	
59	237110		Fire Hydrant Assembly and Marker (6 Inch, 3 Ports)	EA	6	\$8,300.00	\$49,800.00	Yes	
60	237110		Fire Service Connection (6 Inch)	EA	2	\$6,700.00	\$13,400.00	Yes	
61	237110		Fire Service Connection (4 Inch)	EA	2	\$5,900.00	\$11,800.00	Yes	
62	237110		Water Service (6 Inch)	EA	1	\$6,700.00	\$6,700.00	Yes	
63	237110		Water Service (2 Inch)	EA	28	\$3,800.00	\$106,400.00	Yes	
64	237110		Water Service (1 Inch)	EA	289	\$2,700.00	\$780,300.00	Yes	
65	237110		Blow-Off Valve Assembly (2 Inch)	EA	2	\$5,200.00	\$10,400.00	Yes	
66	237110		Air and Vacuum (Air Release) Valve Assembly (1 Inch, Class 235)	EA	4	\$6,190.00	\$24,760.00	Yes	
67	237110		Abandon Water Services (Stiffs)	EA	4	\$750.00	\$3,000.00	Yes	
Main Bid (BASE BID/SEWER)							\$842,094.60		
68	237110		Abandon and Fill Existing Sewer Main (6 Inch) Outside of the Trench Limit	LF	570	\$12.00	\$6,840.00	Yes	
69	237110		Abandon and Fill Existing Sewer Main (10 Inch) Outside of the Trench Limit	LF	189	\$15.00	\$2,835.00	Yes	
70	237110		Abandon Existing Manhole Outside of the Trench Limit	EA	2	\$3,000.00	\$6,000.00	Yes	
71	237110		Sewer Main (8 Inch)	LF	1512	\$222.00	\$335,664.00	Yes	
72	237110		Manhole (3 Ft x 4 Ft)	EA	9	\$5,800.00	\$52,200.00	Yes	
73	237110		Connection to Existing Manhole and Rechanneling	EA	2	\$2,200.00	\$4,400.00	Yes	
74	237110		Sewer Lateral and Cleanout (4 Inch, Street)	EA	16	\$3,200.00	\$51,200.00	Yes	
75	237110		Sewer Main Cleanout (8 Inch)	EA	1	\$1,500.00	\$1,500.00	Yes	
76	237110		Sewer Lateral with Private Replumbing (4 Inch)	EA	5	\$15,000.00	\$75,000.00	Yes	
77	237110		Sewer Lateral with Private Replumbing for Existing Common Lateral	EA	16	\$15,000.00	\$240,000.00	Yes	
78	237110		Rehabilitate Sewer Main (12 Inch)	LF	566	\$51.60	\$29,205.60	Yes	
79	237110		Service Lateral Connection	EA	4	\$2,400.00	\$9,600.00	Yes	
80	237110		Rehabilitate Existing Manhole	EA	2	\$2,785.00	\$5,570.00	Yes	
81	237110		Point Repair for Existing Sewer Main (12 Inch)	EA	1	\$6,000.00	\$6,000.00	Yes	
82	237110		Additional Point Repair for Existing Sewer Main (12 Inch)	LF	20	\$300.00	\$6,000.00	Yes	
83	237110		Service Lateral Rehabilitation with Cleanout Greater than 7 Ft in Depth	EA	4	\$2,520.00	\$10,080.00	Yes	
Alternate A							\$42,500.00		
84	237110		Cut-in Tee by Contractor (8 Inch through 12 Inch)	EA	1	\$6,000.00	\$6,000.00	Yes	
85	237110		Cut-in Cross by Contractor (8 Inch through 12 Inch)	EA	1	\$9,500.00	\$9,500.00	Yes	
86	237110		Cut and Plug by Contractor	EA	6	\$4,500.00	\$27,000.00	Yes	
Alternate B							\$399,000.00		
87	237110		Furnished Materials for Contractor High-line Work	LF	25000	\$7.00	\$175,000.00	Yes	
88	237110		High-lining Installation by the Contractor	LF	25000	\$5.00	\$125,000.00	Yes	
89	237110		High-lining Removed by the Contractor	LF	25000	\$3.00	\$75,000.00	Yes	
90	237110		Connections to The Existing System by Contractor (8 Inch through 12 Inch)	EA	4	\$6,000.00	\$24,000.00	Yes	
Alternate C							\$157,651.40		
91	237310		Cold Milling Full Width	SF	54810	\$0.54	\$29,597.40	Yes	
92	237310		Asphalt Concrete Overlay	TON	960	\$122.40	\$117,504.00	Yes	
93	237310		Adjust Existing Manhole Frame and Cover to Grade	EA	11	\$600.00	\$6,600.00	Yes	
94	237310		Adjust Existing Survey Monument to Grade	EA	1	\$800.00	\$800.00	Yes	

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
95	237310		Adjust Existing Gate Valve Frame and Cover to Grade	EA	9	\$350.00	\$3,150.00	Yes	

Line Item Subtotals

Section Title	Line Total
Main Bid (BASE BID/COMMON ITEMS)	\$1,993,746.00
Main Bid (BASE BID/WATER)	\$2,751,998.00
Main Bid (BASE BID/SEWER)	\$842,094.60
Alternate A	\$42,500.00
Alternate B	\$399,000.00
Alternate C	\$157,651.40
Grand Total	\$6,186,990.00

Line Totals (Unit Price * Quantity)								
Item Num	Section	Item Code	Description	Reference	Unit of Measure	Quantity	Palm Engineering Construction Co., Inc. - Unit Price	Palm Engineering Construction Co., Inc. - Line Total
1	Main Bid (BASE BID/COMMON ITEMS)	524126	Bonds (Payment and Performance)	1-7.2.1	LS	1	\$89,105.92	\$89,105.92
2	Main Bid (BASE BID/COMMON ITEMS)	237110	Sewage Bypass and Pumping Plan (Diversion Plan)	3-12.5.4	LS	1	\$25,000.00	\$25,000.00
3	Main Bid (BASE BID/COMMON ITEMS)	541820	Exclusive Community Liaison Services	5-10.4	LS	1	\$33,000.00	\$33,000.00
4	Main Bid (BASE BID/COMMON ITEMS)	238910	Preparation of Waste Management Form	5-14.9	LS	1	\$2,750.00	\$2,750.00
5	Main Bid (BASE BID/COMMON ITEMS)	238990	Preparation of Hazardous Waste Management Plan and Reporting	5-15.17	LS	1	\$8,250.00	\$8,250.00

6	Main Bid (BASE BID/COMMON ITEMS)	541690	Monitoring of Contaminated Soil	5-15.17	HR	66	\$126.50	\$8,349.00
7	Main Bid (BASE BID/COMMON ITEMS)	238990	Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	5-15.17	TON	498	\$49.50	\$24,651.00
8	Main Bid (BASE BID/COMMON ITEMS)	238990	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	5-15.17	TON	498	\$93.50	\$46,563.00
9	Main Bid (BASE BID/COMMON ITEMS)	541690	Archaeological and Native American Monitoring Program	6-6.2.1.1	LF	100	\$32.25	\$3,225.00
10	Main Bid (BASE BID/COMMON ITEMS)	541690	Suspension of Work - Resources	6-6.2.1.1	DAY	5	\$500.00	\$2,500.00

11	Main Bid (BASE BID/COMMON ITEMS)	541690	Archaeological and Native American Mitigation and Curation (EOC Type I)	6-6.2.3.1	AL	1	\$5,000.00	\$5,000.00
12	Main Bid (BASE BID/COMMON ITEMS)	237110	Mobilization	7-3.4.1	LS	1	\$220,000.00	\$220,000.00
13	Main Bid (BASE BID/COMMON ITEMS)		Field Orders (EOC Type II)	7-3.9	AL	1	\$325,000.00	\$325,000.00
14	Main Bid (BASE BID/COMMON ITEMS)	238910	Clearing and Grubbing	300-1.4	LS	1	\$33,000.00	\$33,000.00
15	Main Bid (BASE BID/COMMON ITEMS)	237310	Asphalt Pavement Repair	301-1.7	TON	300	\$210.00	\$63,000.00
16	Main Bid (BASE BID/COMMON ITEMS)	237310	Rubber Polymer Modified Slurry (RPMS) Type I	302-4.12.4	SF	360922	\$0.42	\$151,587.24

17	Main Bid (BASE BID/COMMON ITEMS)	237310	Rubber Polymer Modified Slurry (RPMS) Type II	302-4.12.4	SF	393402	\$0.52	\$204,569.04
18	Main Bid (BASE BID/COMMON ITEMS)	237310	Rubber Polymer Modified Slurry (RPMS) Type III	302-4.12.4	SF	32480	\$1.06	\$34,428.80
19	Main Bid (BASE BID/COMMON ITEMS)	237310	Pavement Restoration Adjacent to Trench	302-5.2.1	SF	12738	\$9.50	\$121,011.00
20	Main Bid (BASE BID/COMMON ITEMS)	238910	Concrete Pavement (6 Inch thick)	302-6.8	CY	17	\$465.00	\$7,905.00
21	Main Bid (BASE BID/COMMON ITEMS)	237310	Crack Seal	302-15.5	LB	2500	\$7.50	\$18,750.00
22	Main Bid (BASE BID/COMMON ITEMS)	237310	Remove and Replace Existing Sidewalk	303-5.9	SF	3200	\$13.00	\$41,600.00

23	Main Bid (BASE BID/COMMON ITEMS)	237310	Cross Gutter	303-5.9	SF	2700	\$17.00	\$45,900.00
24	Main Bid (BASE BID/COMMON ITEMS)	237310	Curb Ramp (Type A) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	7	\$4,500.00	\$31,500.00
25	Main Bid (BASE BID/COMMON ITEMS)	237310	Curb Ramp (Type B) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	2	\$4,500.00	\$9,000.00
26	Main Bid (BASE BID/COMMON ITEMS)	237310	Curb Ramp (Type C-1) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	3	\$4,500.00	\$13,500.00
27	Main Bid (BASE BID/COMMON ITEMS)	237310	Curb Ramp (Type D) with Stainless Steel Detectable Warning Tiles	303-5.10.2	EA	2	\$4,500.00	\$9,000.00

28	Main Bid (BASE BID/COMMON ITEMS)	237310	Additional Sidewalk	303-5.10.2	SF	2500	\$10.00	\$25,000.00
29	Main Bid (BASE BID/COMMON ITEMS)	237310	Additional Curb	303-5.10.2	LF	1200	\$55.00	\$66,000.00
30	Main Bid (BASE BID/COMMON ITEMS)	237110	Phased Paving	306-1.2.1	EA	8	\$500.00	\$4,000.00
31	Main Bid (BASE BID/COMMON ITEMS)	237310	Temporary Resurfacing	306-15.9	TON	539	\$135.00	\$72,765.00
32	Main Bid (BASE BID/COMMON ITEMS)	237110	Imported Trench Backfill	306-15.11	TON	6800	\$1.00	\$6,800.00
33	Main Bid (BASE BID/COMMON ITEMS)	238990	Survey Monument	309-4	EA	5	\$1,500.00	\$7,500.00

34	Main Bid (BASE BID/COMMON ITEMS)	237310	Removal and Replacement of Existing Paint Striping	314-4.3.7	LS	1	\$7,800.00	\$7,800.00
35	Main Bid (BASE BID/COMMON ITEMS)	237310	Painted Traffic Stripes and Painted Curb Markings	314-4.3.7	LF	150	\$1.80	\$270.00
36	Main Bid (BASE BID/COMMON ITEMS)	237310	Removal and Replacement of Existing Thermoplastic Striping and Markings	314-4.4.6	LS	1	\$4,680.00	\$4,680.00
37	Main Bid (BASE BID/COMMON ITEMS)	237310	Continental Crosswalks	314-4.4.6	SF	1800	\$2.40	\$4,320.00
38	Main Bid (BASE BID/COMMON ITEMS)	238990	Video Recording of Existing Conditions	400-1.1.1	LS	1	\$2,436.00	\$2,436.00
39	Main Bid (BASE BID/COMMON ITEMS)	238910	Tree Removal and Disposal (Less Than 24 Inch Trunk Diameter)	401-7	EA	2	\$1,500.00	\$3,000.00

40	Main Bid (BASE BID/COMMON ITEMS)	237110	Potholing Existing Utilities Not Shown on Plans (Depth Up to 7 Feet)	402-8	EA	50	\$650.00	\$32,500.00
41	Main Bid (BASE BID/COMMON ITEMS)	237310	Adjust Existing Manhole Frame and Cover to Grade	403-5	EA	24	\$650.00	\$15,600.00
42	Main Bid (BASE BID/COMMON ITEMS)	237310	Adjust Existing Gate Valve Frame and Cover to Grade	403-5	EA	42	\$425.00	\$17,850.00
43	Main Bid (BASE BID/COMMON ITEMS)	237310	Adjust Existing Survey Monument to Grade	403-5	EA	4	\$800.00	\$3,200.00
44	Main Bid (BASE BID/COMMON ITEMS)	237310	Traffic Signal Loop and Appurtenance Replacement (Modified Type E)	404-12	EA	4	\$780.00	\$3,120.00

51	Main Bid (BASE BID/WATER)	237110	Removal of Abandoned Water Meter Box	306-3.3.4	EA	4	\$450.00	\$1,800.00
52	Main Bid (BASE BID/WATER)	237110	Handling and Disposal of Non- friable Asbestos Material	306-3.3.5.5	LF	10705	\$12.00	\$128,460.00
53	Main Bid (BASE BID/WATER)	237110	Water Main (12 Inch)	306-15.1	LF	3664	\$150.00	\$549,600.00
54	Main Bid (BASE BID/WATER)	237110	Water Main (8 Inch, Class 305)	306-15.1	LF	1399	\$122.00	\$170,678.00
55	Main Bid (BASE BID/WATER)	237110	Water Main (8 Inch)	306-15.1	LF	5526	\$120.00	\$663,120.00
56	Main Bid (BASE BID/WATER)	237110	Gate Valve (12 Inch)	306-15.5	EA	4	\$3,285.00	\$13,140.00
57	Main Bid (BASE BID/WATER)	237110	Gate Valve (8 Inch)	306-15.5	EA	16	\$1,965.00	\$31,440.00
58	Main Bid (BASE BID/WATER)	237110	Fire Hydrant Assembly and Marker (6 Inch, 2 Ports)	306-15.6	EA	24	\$7,800.00	\$187,200.00

59	Main Bid (BASE BID/WATER)	237110	Fire Hydrant Assembly and Marker (6 Inch, 3 Ports)	306-15.6	EA	6	\$8,300.00	\$49,800.00
60	Main Bid (BASE BID/WATER)	237110	Fire Service Connection (6 Inch)	306-15.6	EA	2	\$6,700.00	\$13,400.00
61	Main Bid (BASE BID/WATER)	237110	Fire Service Connection (4 Inch)	306-15.6	EA	2	\$5,900.00	\$11,800.00
62	Main Bid (BASE BID/WATER)	237110	Water Service (6 Inch)	306-15.8	EA	1	\$6,700.00	\$6,700.00
63	Main Bid (BASE BID/WATER)	237110	Water Service (2 Inch)	306-15.8	EA	28	\$3,800.00	\$106,400.00
64	Main Bid (BASE BID/WATER)	237110	Water Service (1 Inch)	306-15.8	EA	289	\$2,700.00	\$780,300.00
65	Main Bid (BASE BID/WATER)	237110	Blow-Off Valve Assembly (2 Inch)	306-15.8	EA	2	\$5,200.00	\$10,400.00

66	Main Bid (BASE BID/WATER)	237110	Air and Vacuum (Air Release) Valve Assembly (1 Inch, Class 235)	306-15.8	EA	4	\$6,190.00	\$24,760.00
67	Main Bid (BASE BID/WATER)	237110	Abandon Water Services (Stiffs)	402-8	EA	4	\$750.00	\$3,000.00
								\$2,751,998.00
68	Main Bid (BASE BID/SEWER)	237110	Abandon and Fill Existing Sewer Main (6 Inch) Outside of the Trench Limit	306-3.3.4	LF	570	\$12.00	\$6,840.00
69	Main Bid (BASE BID/SEWER)	237110	Abandon and Fill Existing Sewer Main (10 Inch) Outside of the Trench Limit	306-3.3.4	LF	189	\$15.00	\$2,835.00
70	Main Bid (BASE BID/SEWER)	237110	Abandon Existing Manhole Outside of the Trench Limit	306-3.3.4	EA	2	\$3,000.00	\$6,000.00

71	Main Bid (BASE BID/SEWER)	237110	Sewer Main (8 Inch)	306-15.1	LF	1512	\$222.00	\$335,664.00
72	Main Bid (BASE BID/SEWER)	237110	Manhole (3 Ft x 4 Ft)	306-16.6	EA	9	\$5,800.00	\$52,200.00
73	Main Bid (BASE BID/SEWER)	237110	Connection to Existing Manhole and Rechanneling	306-16.6	EA	2	\$2,200.00	\$4,400.00
74	Main Bid (BASE BID/SEWER)	237110	Sewer Lateral and Cleanout (4 Inch, Street)	306-17.2	EA	16	\$3,200.00	\$51,200.00
75	Main Bid (BASE BID/SEWER)	237110	Sewer Main Cleanout (8 Inch)	306-17.2	EA	1	\$1,500.00	\$1,500.00
76	Main Bid (BASE BID/SEWER)	237110	Sewer Lateral with Private Replumbing (4 Inch)	306-17.2	EA	5	\$15,000.00	\$75,000.00
77	Main Bid (BASE BID/SEWER)	237110	Sewer Lateral with Private Replumbing for Existing Common Lateral	306-17.2	EA	16	\$15,000.00	\$240,000.00

78	Main Bid (BASE BID/SEWER)	237110	Rehabilitate Sewer Main (12 Inch)	500-12	LF	566	\$51.60	\$29,205.60
79	Main Bid (BASE BID/SEWER)	237110	Service Lateral Connection	501-9	EA	4	\$2,400.00	\$9,600.00
80	Main Bid (BASE BID/SEWER)	237110	Rehabilitate Existing Manhole	502-8	EA	2	\$2,785.00	\$5,570.00
81	Main Bid (BASE BID/SEWER)	237110	Point Repair for Existing Sewer Main (12 Inch)	500-4.7	EA	1	\$6,000.00	\$6,000.00
82	Main Bid (BASE BID/SEWER)	237110	Additional Point Repair for Existing Sewer Main (12 Inch)	500-4.7	LF	20	\$300.00	\$6,000.00
83	Main Bid (BASE BID/SEWER)	237110	Service Lateral Rehabilitation with Cleanout Greater than 7 Ft in Depth	503-6	EA	4	\$2,520.00	\$10,080.00
								\$842,094.60
84	Alternate A	237110	Cut-in Tee by Contractor (8 Inch through 12 Inch)	901-2.5	EA	1	\$6,000.00	\$6,000.00

85	Alternate A	237110	Cut-in Cross by Contractor (8 Inch through 12 Inch)	901-2.5	EA	1	\$9,500.00	\$9,500.00
86	Alternate A	237110	Cut and Plug by Contractor	901-2.5	EA	6	\$4,500.00	\$27,000.00
								\$42,500.00
87	Alternate B	237110	Furnished Materials for Contractor High-line Work	900-1.9	LF	25000	\$7.00	\$175,000.00
88	Alternate B	237110	High-lining Installation by the Contractor	901-1.3	LF	25000	\$5.00	\$125,000.00
89	Alternate B	237110	High-lining Removed by the Contractor	901-1.3	LF	25000	\$3.00	\$75,000.00
90	Alternate B	237110	Connections to The Existing System by Contractor (8 Inch through 12 Inch)	901-2.5	EA	4	\$6,000.00	\$24,000.00
								\$399,000.00
91	Alternate C	237310	Cold Milling Full Width	404-12	SF	54810	\$0.54	\$29,597.40
92	Alternate C	237310	Asphalt Concrete Overlay	302-5.9	TON	960	\$122.40	\$117,504.00

93	Alternate C	237310	Adjust Existing Manhole Frame and Cover to Grade	403-5	EA	11	\$600.00	\$6,600.00
94	Alternate C	237310	Adjust Existing Survey Monument to Grade	403-5	EA	1	\$800.00	\$800.00
95	Alternate C	237310	Adjust Existing Gate Valve Frame and Cover to Grade	403-5	EA	9	\$350.00	\$3,150.00
							Subtotal	\$157,651.40
							Total	\$6,186,990.00